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CATALOGUE

FRUIT
AND
ORNAMENTAL
TREES,
SHRUBS,
PLANTS,
ROSES,
ETC.

Recd 1910

XENIA STAR NURSERIES

XENIA, OHIO.

ILLUSTRATED AND DESCRIPTIVE
CATALOGUE
OF
Fruit and Ornamental Trees



Small Fruits, Pæonies,
Hardy Border Plants,
Shrubs, Roses, Etc., Etc.

PUBLISHED BY
ROCHESTER LITHOGRAPHING COMPANY
ROCHESTER, N. Y.

Notice to Customers



1. Orders should be sent in as early as possible, that there may be plenty of time for shipping long distances when necessary.

2. Buyers ordering by letter, should write out their orders plainly, on a separate list, and not on the body of the letter. It will prevent mistakes in the hurry of the packing season.

3. Give plain and explicit shipping directions. When none are given we forward according to our best judgment; but in no case do we assume any responsibility after the delivery of stock in good condition to the forwarder.

4. All orders from unknown correspondents must be accompanied with the cash or satisfactory references.

5. If the varieties of fruit ordered cannot be supplied, others equally as good, and ripening about the same season, will be substituted, unless ordered to the contrary.

6. We recommend that purchasers leave the selection of varieties with us, as far as possible, merely stating the proportion of summer, fall and winter fruit wanted, as our experience enables us to select such sorts as are adapted to the locality. We will cheerfully give our personal attention to all such orders, and our customers can depend on getting, not only the best varieties, but those that are best adapted to the location.

7. Immediate notice should be given to us of any error in filling out an order, so that we may at once rectify the mistake, or give a satisfactory explanation.

...Introduction...

WE TAKE PLEASURE IN PRESENTING a New Edition of our Descriptive Catalogue, carefully revised and corrected by the addition of descriptions of our new and promising sorts, and the omission of such as greater experience and progress in horticulture and floriculture have proved no longer worthy of general dissemination.

The continued patronage of our friends, as shown by their frequent and increasing orders, assures us that our efforts to please them are appreciated. This will stimulate us to still greater efforts, and will warrant us in making expenditures necessary to secure the best results.

Nothing better illustrates the progress of our country, the advance in civilization its people are making and the fact that they are learning to live better, than the greatly increased and continuing demand for nursery stock, both fruit and ornamental.

While this demand is stimulated in part by the knowledge of the great profits which result from the systematic planting and careful cultivation of many kinds of fruit, it is by no means limited to this incentive. In every rank and station of life, including the humblest and the most opulent, those residing in town and country people are beginning to see that nothing can add so much to the comforts of living as a constant supply of the best varieties of the different fruits for home use, and nothing will do so much to adorn their homes, gratify a sense of the beautiful, and produce refinement in their families as the planting of such well-selected varieties of ornamental trees, shrubs, roses, clematis, etc., as the ground about their houses will permit.

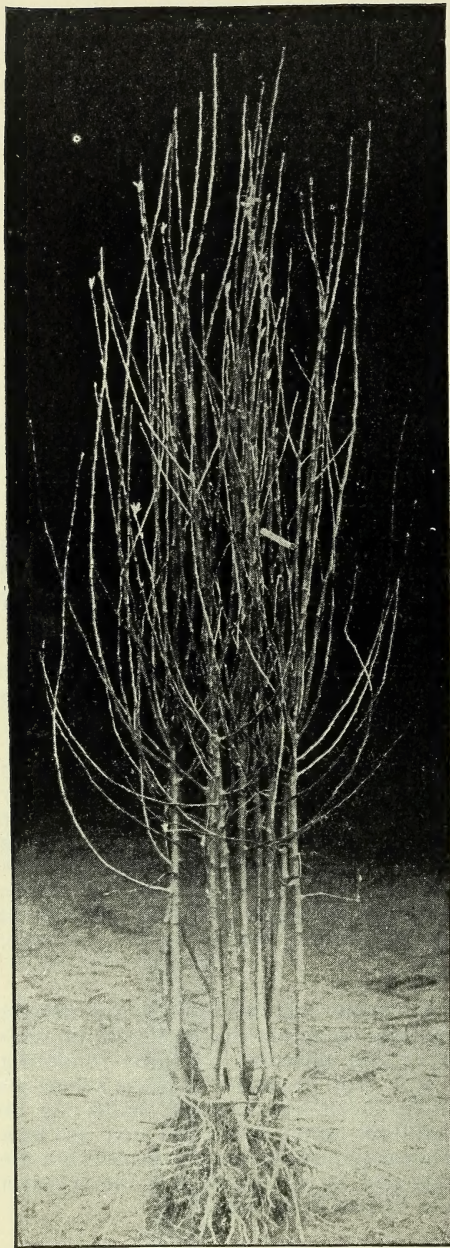
Some persuade themselves that the demand for fruit and fruit trees has already reached its limit, but canning and the improved methods of factory drying (still in their infancy) have increased the domestic consumption of the different fruits, by rendering them nearly as good as fresh throughout the year, and that by means of these processes and improved facilities for shipping fresh fruits, the fruits of the United States can be exported to the remotest quarters of the globe. Millions upon land and sea are now supplied who have hitherto been deprived of such luxuries and no one can doubt that the setting of trees and plants for the production of large and small fruits at a much better profit than can be derived from ordinary farm crops, is also in its infancy.

We would not tempt the uninitiated with the promise of a large fortune in a few years without labor or trouble, but we do say, that the business of fruit growing, conducted with energy, perseverance and intelligence, will bring an ample and sure reward.

Good cultivation—by which we mean keeping the ground sufficiently fertile and at all times mellow and free from weeds, together with thorough drainage, either natural or artificial—is absolutely necessary to success. This, with judicious pruning and proper selection of varieties suitable for the locality will, in nearly all portions of the United States, produce gratifying results.

We devote our personal attention to every branch of our business. We aim to include in our assortment the best varieties in each class, for market and family use, and persons ordering from us may rely upon our giving careful attention to their interests.

Hints on Transplanting, Etc.



Preparation of the Soil—Prepare a rich, deep bed of mellow soil, and have the land sufficiently drained to relieve the roots from standing water. To insure a fine growth, land should be in as good condition as is required for a crop of wheat, corn or potatoes.

Preparation of Trees or Other Stock—We use great care in digging and packing, but the loss of some small roots and fibers is unavoidable. If stock is properly prepared before it is planted, no permanent injury will result from this, but the preservation of the natural balance between top and roots renders a **vigorous cutting back of the former absolutely necessary** in most cases. And, therefore, prune off broken ends of roots, if any (a smooth cut root granulates or makes ready to extend sooner than one broken off), cut back the tops to the extent of about one-half the previous season's growth, taking care at all times to prune in such a manner as will tend to develop a well-formed head, sufficiently open to admit air and light freely. Evergreen and other ornamental trees, the beauty of which depends on preserving their natural form, should be pruned very little. Hence, great pains should be taken in planting and caring for these. If not ready to plant when the stock arrives, "heel it in" by placing the roots in a trench and covering them with mellow earth, **well packed**.

Planting—Make the holes large enough to admit the roots without any cramping or bending, and deep enough to bring the tree to its natural depth. The fine surface soil should be used in covering the roots, and this should be carefully worked among them. If the ground is dry it is well to pour in some water when the hole is partially filled. See that the ground is firmly and solidly packed over all parts of the roots by exerting the full weight of the planter upon it, so that there will be no opportunity for dry air or frost to enter and destroy roots deprived of the full benefit of their natural protection. Omission to pack the earth solidly is a most frequent cause of failure in planting nursery stock. Fill the holes full enough to be even with the surrounding surface after the fresh earth settles. Always remove the label when planting. If

this is left until the tree is grown, the connecting wire often cuts into and destroys the tree or branch to which it may be attached. **Never use wire in contact with roots.** When planting dwarf trees set them low enough to cover the stock upon which they are budded, but not lower. Large standard trees should be staked and tied so that the wind will not loosen the roots. This should be so done that the bands will not chafe the trees. It is a very good way to drive two stakes and confine the trees between straw or hay bands stretched from stake to stake.

Mulching—When trees or bushes are planted, they should be mulched or covered with a layer of coarse manure or litter from three to six inches deep for a space of say, two feet more in diameter than the extent of the roots. This keeps the earth moist and even temperature.

After-Culture—Grass should not be allowed to grow about young trees or plants. The ground should be cultivated for a space of at least a foot outside the roots. If the ground is poor it should be enriched with surface applications of manure. Pruning should be varied according to the condition of the tree and the purpose of the planter. It should be done regularly every spring before the buds swell any. In this way the removal of large branches will be avoided.

Fall Planting—When planted in the fall, all trees should be banked up at least one foot high until spring. This overcomes the tendency of the trees to heave out, protects them from mice and prevents the roots from freezing before they have taken hold of the soil. In planting roses, shrubs, vines, and other delicate stock in the fall, **the tops should be nearly or quite buried with mellow earth during the first winter.** The surplus earth should be removed in the spring.

Injured Trees—If trees are received in a frozen state, place the package unopened in a cellar, away from frost and heat, until thawed out and then unpack. If partially dried from long exposure, bury entirely in the ground or place in water from 12 to 24 hours.

WINTERING NURSERY STOCK PROCURED IN THE FALL.

In sections where the winters are **very severe**, it is not advisable to set out young trees and plants in the fall, but the practice of procuring them in the fall and planting them in the spring is becoming more and more popular as experience has demonstrated its advantages. In the fall nurserymen are not hurried with their own planting; the season for shipping is comparatively long, and the weather not nearly so changeable as in the spring. Railways are not so much hurried and there is much less chance for injurious delays than in the spring. It being practicable to plant trees so procured as soon as the frost is out, they become thoroughly established the first season.

There is a popular impression that trees dug in the fall and heeled in over winter are worthless. If the heeling is well done there could not be a greater mistake. Peach and some other young trees, if left standing during the first winter are frequently killed or injured by frost, while if dug in the fall and treated as below described, they come through bright and uninjured.

To insure success, select a dry spot where no water will stand during the winter, having no grass near to invite mice. Dig a trench deep enough to admit one layer of roots, and sloping enough to admit the trees to lay at an angle of not more than 30 degrees with the ground. Having placed one layer of roots in this trench; cover them with mellow earth extending well upon the bodies and see that this is firmly packed. Then add another layer of trees overlapping the first, and continuing as at first until all are heeled in. As soon as this is done, cover the tops so well with evergreen boughs that they will be thoroughly protected from winds. Roses and other small stock may be wholly covered with earth.

DISTANCES FOR PLANTING

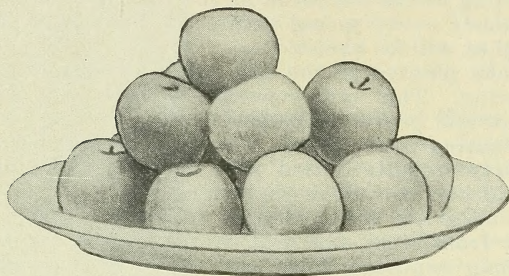
Standard Apples	40	feet	apart	each	way
Standard Pears and Strong Growing Cherries.....	20	"	"	"	"
Duke and Morello Cherries.....	18	"	"	"	"
Standard Plums, Peaches, Apricots and Nectarines....	16 to 18	"	"	"	"
Dwarf Pears	10 to 12	"	"	"	"
Dwarf Apples	10 to 12	"	"	"	"
Quinces	10 to 12	"	"	"	"
Grapes	rows of 10 to 16 feet apart; 7 to 16 feet in rows.				
Currants and Gooseberries.....	4	feet	apart.		
Raspberries and Blackberries	3 to 4	by	5 to 7	feet.	
Strawberries, for field culture.....	1	by	3 to 3½	feet.	
Strawberries, for garden culture	1 to 2	feet	apart.		

NUMBER OF TREES ON AN ACRE

30 feet apart each way	50	10 feet apart each way	435
25 " " " "	70	8 " " " "	680
20 " " " "	110	6 " " " "	1210
18 " " " "	135	5 " " " "	1745
15 " " " "	205	4 " " " "	2725
12 " " " "	300	3 " " " "	4840

Rule—Multiply the distance in feet between the rows by the distance the plants are apart in the rows, and the product will be the number of square feet, for each plant or hill, which, divided into the number of square feet in an acre (43,560), will give the number of plants or trees to the acre.

Fruit Department



APPLES

The first fruit of importance is the Apple. Its period of ripening, unlike that of other fruits, extends nearly or quite through the year. By making judicious selections of summer, autumn and winter sorts, a constant succession can be easily obtained of this indispensable fruit for family use.

There is no farm crop which, on the average, will produce one-fourth as much income per acre as will a good apple orchard. The average prices paid for the fruit is steadily on the increase, and the immense demand for home consumption, foreign shipping, canning and evaporating, assures us that they will continue to increase.

If apples are planted at the rate of fifty trees per acre, rows of peach trees can be planted between the apples which, growing more quickly than the apple trees, soon protect them from the winds, and thus prove a great benefit to them. After eight or ten years of productiveness, as the space is needed for the apples, the peach trees may be removed, leaving the orchard better for the protection, and at the same time having yielded the planter a large return for his outlay and labor.

SUMMER

- Astrachan, Red**—Large roundish; nearly covered with deep crimson, overspread with a thick bloom; juicy, rich, acid, beautiful. The tree is a vigorous grower, with large foliage and a good bearer. August.
- Benoni**—An excellent early apple. Tree vigorous and upright, hardy and productive. A valuable variety for home or market. Flesh yellow, tender, pleasant, sub-acid; core small. August.
- Caroline Red June**—(Red June)—Medium size, red; flesh white, tender, juicy, sub-acid; an abundant bearer. June.
- Early Harvest**—Medium to large; pale yellow; fine flavor. Tree a moderate, erect grower, and a good bearer; a beautiful and excellent variety for both orchard and garden. Middle to end of August.
- Early Strawberry**—Medium, striped with deep red; tender, sub-acid and excellent; a poor grower but productive. August.
- Golden Sweet**—Rather large; pale yellow; very sweet and good. Strong grower and good bearer. August.
- Keswick Codlin**—Large, conical; tender, juicy, acid; excellent for cooking. Tree erect, vigorous, productive and early in bearing. July to October.
- Primate**—Above medium; straw color, tinged with blush; tender, fine-grained, juicy and sub-acid; a vigorous grower and abundant bearer. Ripens August and September.
- Star**—Large size, often three inches in diameter; color rich, pale, yellowish-green; flavor sprightly, sub-acid. August.
- Summer Queen**—Medium to large, roundish; surface yellow, blotched and streaked with red, flesh yellow and tender, with an acid, aromatic flavor. July and August.
- Sops of Wine**—Medium size, oblong, red; flesh white, often stained; mild and pleasant; productive. August and September.
- Tetofsky**—A Russian apple which has proved profitable for market growing. Hardy as a Crab. Fruit good size nearly round; yellow, beautifully striped with red; flesh white, juicy, pleasant, acid, aromatic. July and August.
- Yellow Transparent**—A Russian variety. Tree an upright grower and a very early and abundant bearer. Fruit of good size; skin clear white, turning to a pale yellow; flavor acid and very good. Ripens from ten days to two weeks earlier than Early Harvest.

AUTUMN

Alexander—(Emperor)—Of Russian origin. Large, deep red or crimson; flesh yellowish-white, crisp, tender, with pleasant flavor. Very hardy. October.

Autumn Strawberry—Medium, streaked; tender, juicy, sub-acid, fine; vigorous and productive. September and October.

Colvert—Of large size, striped; sub-acid, tender, a strong grower and great bearer. October.

Duchess of Oldenburg—Of Russian origin. Large size, roundish, streaked with red and yellow; flesh whitish, juicy; flavor sprightly sub-acid; tree a vigorous grower, very hardy; very early and abundant bearer. While it is indispensable in the North, it is almost equally so in the South. September.

Fall Jennetting—Large, oblate; pale greenish-white with a blush; tender,

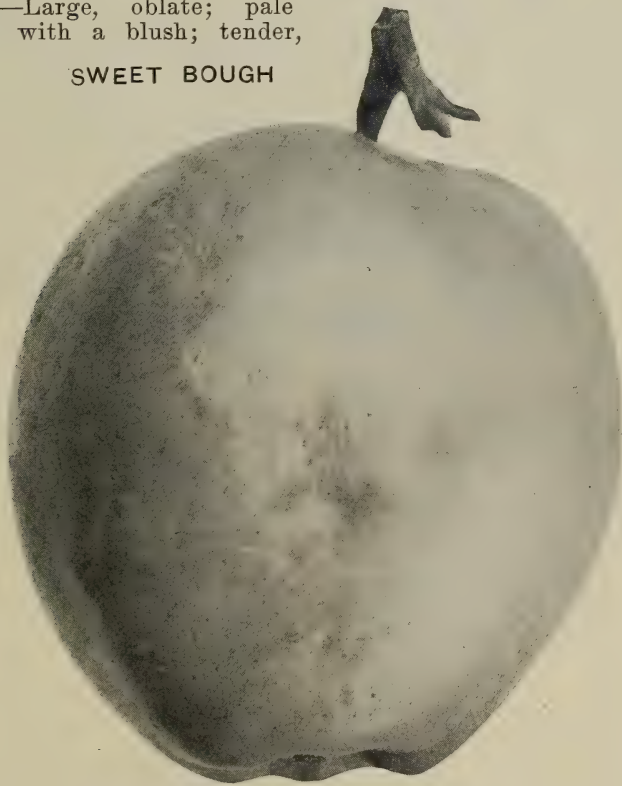
vigorous and productive. September and October.

Haas—(Gros Pomier. Fall Queen)—Medium to large, slightly conical and somewhat ribbed; pale greenish-yellow, shaded and striped with red; flesh fine, white, sometimes stained; tender, juicy, sub-acid, good. Tree vigorous and very hardy; upright grower with well-formed head; bears early and abundantly. September to November.

Jersey Sweet—Medium; striped red and green; very sweet, rich and pleasant. Good grower and bearer. September and October.

Lowell—(Orange, Tallow or Greasy Pippin)—Large, oblong; skin oily, pale yellow; brisk, juicy, rather acid flavor. Good for table and cooking. September and October.

SWEET BOUGH



juicy, mild and sub-acid. Tree vigorous, spreading and productive. November.

Fall Pippin—Very large; yellow, tender, juicy and rich. Tree vigorous. October to December.

Fameuse—(Snow Apple)—Medium size, roundish, oblate; whitish ground, striped with deep red; flesh very white, juicy and pleasant. Tree very hardy; one of the most valuable Northern sorts. November and December.

Gravenstein—Large, striped and beautiful; tender, juicy and high flavor;

Maiden's Blush—Medium size, flat, quite smooth and fair; pale yellow, with beautiful red cheek; tender, sprightly, pleasant, acid flavor. Fair grower and good bearer. September and October.

Munson Sweet—Large, pale yellow, with red cheek; tender, rich and good. Fine grower and bearer. October to January.

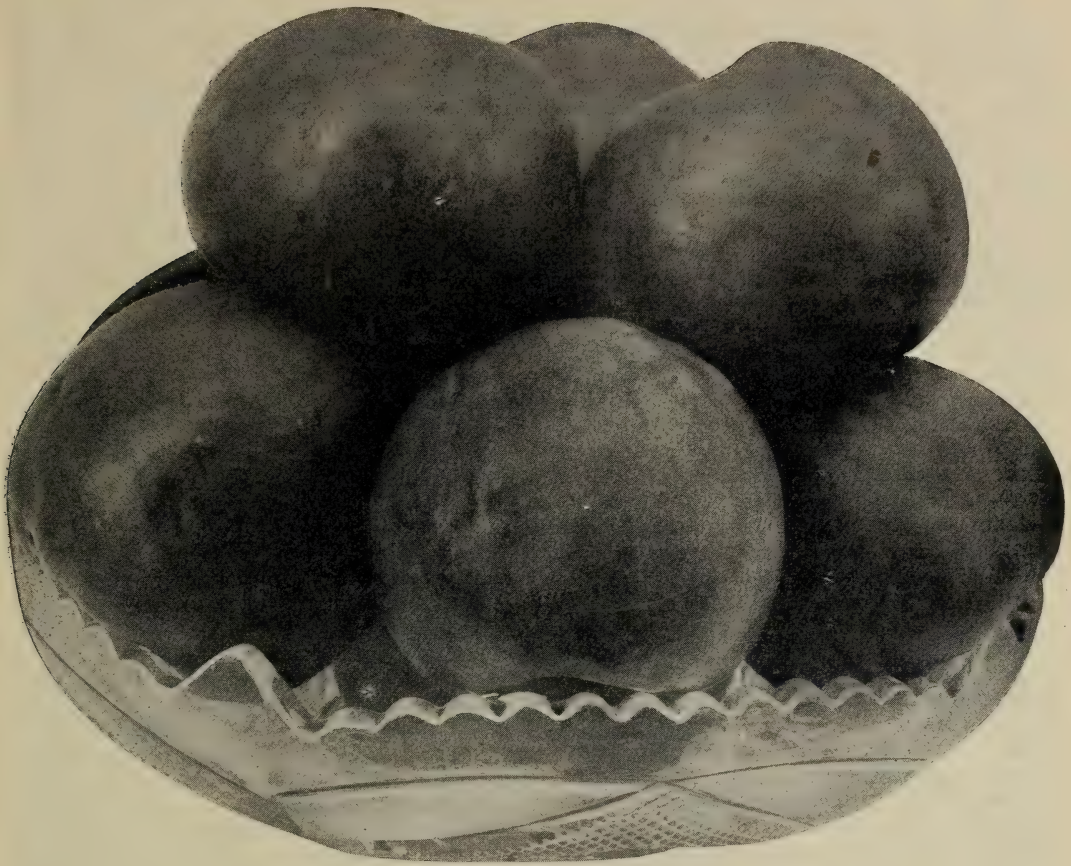
Porter—Rather large; yellow, tender, rich and fine. Moderate grower, but productive. September.

Pumpkin Sweet—(Pumpkin Russet)—A very large, round, yellowish russet

- apple, very sweet and rich. Tree a vigorous, rapid, upright grower; valuable. October and November.
- Rambo**—Medium; yellowish, streaked with dull red and somewhat dotted; mild, tender and good. Fine grower, productive; more especially valuable in the West. October to December.
- Red Beitigheimer**—A rare German variety. Fruit large to very large; skin pale-green color, mostly covered with purplish-crimson; flesh white, firm, sub-acid, with a brisk, pleasant flavor. Tree a fine grower, abundant bearer. September and October.
- Sherwood's Favorite, or Chenango Strawberry**—Medium size; oblong and indistinctly ribbed; of a light color, splashed with dark crimson; flesh white, juicy, very mild and tender, slightly sub-acid. Very much esteemed for the table, and popular wherever grown. September.
- Smoke House**—Large, yellow, shaded with bright red; flesh firm, crisp, juicy and fine-flavored. Especially esteemed in Pennsylvania. October and November.
- St. Lawrence**—Large, yellowish, striped and splashed with carmine; flesh white, slightly stained, crisp, juicy and vinous. Tree hardy and productive. September.
- Stump**—A well tried apple. Of good size, roundish, conical; flesh firm, crisp, juicy, tender, sprightly sub-acid; greenish-yellow, stained with red; beautifully fair, and has commanded the highest prices wherever shown. October to December.
- Sweet Bough**—Large, pale greenish-yellow; tender and sweet. Moderate grower and good bearer. August.
- Twenty Ounce**—Very large, nearly round; yellow, striped with red; quality good; vigorous and good bearer; popular as a market variety. November and December.
- Walter Pease**—Fruit very showy and attractive, and as a dessert or fancy market apple has no superior. Core very small, flesh white, fine-grained; quality best; mild, juicy, slightly sub-acid, with a rich, sweet, aromatic flavor. Tree vigorous and very productive. New. September.

WINTER

- America**—Originated not far from the Potomac, and brought to notice at the close of the Civil War. One of the best and most popular apples brought to the Washington markets. Tree a vigorous grower and an annual bearer of uniform and perfect fruit. Season, February and March.
- Arkansas Beauty**—Large to very large; deep red, tender, yet firm; one of the handsomest apples grown; quality good. Tree hardy, vigorous and very productive. December to May.
- Arkansas Black**—Fruit large, round, oblong covered all over with very dark red. Much darker than Wine Sap; flesh orange yellow. A splendid keeper.
- Bailey Sweet**—Large; deep red, tender, rich, sweet; vigorous, upright, good bearer. November to April.
- Bismarck**—Introduced from New Zealand. Very large, remarkably handsome and showy; flesh yellow, tender, juicy; quality good; extremely hardy and prolific; bears early. Season November to February. New.
- Baldwin**—Large, roundish, deep bright red; crisp; sub-acid, good flavor. Tree vigorous, upright and very productive of fair handsome fruit; one of the best and most popular winter apples. January to April.
- Baxter**—Originated in Canada, on the banks of the St. Lawrence. Above medium size; dark red, spotted; mild, sub-acid, quality good.
- Belle de Boskoop**—Pronounced one of the most beautiful and profitable of the Russian varieties. Large, bright yellow, light red on sunny side, flesh crisp, firm, juicy, sprightly sub-acid; quality very good. A late keeper.
- Bellefleur, Yellow**—Large, yellow, with blush cheek; very tender, juicy, sub-acid. In use all winter. Very valuable. A moderate grower and good bearer.
- Ben Davis**—(New York Pippin, Kentucky Streak, etc.)—A large, handsome, striped apple of good quality. Tree very hardy, vigorous and productive. A late keeper. Highly esteemed in the West and Southwest.
- Bethel**—Large, deep red; flesh crisp and tender. A native of Vermont, where it is highly prized for its quality and the extreme hardness of the tree; a moderate grower. December to February.
- Boiken**—A new variety from Transylvania, Europe. Very hardy and a young and continuous bearer. Flesh snow white, fine-grained. An excellent dessert fruit from January to June.
- Bottle Greening**—Resembles Rhode Island Greening, but tree a better grower and much hardier. A native of Vermont. December to March.
- Cooper's Market**—Medium, conical, yellow striped with crimson; flesh white, tender, brisk sub-acid. Vigorous, upright grower. December to May.
- Cranberry Pippin**—A first rate apple. Tree healthy and a good annual bearer. Fruit large; flesh juicy, sub-acid, and of good flavor.
- Delaware Red**—Medium to large; bright red, highly colored; flesh fine grained, crisp, juicy, sub-acid, excellent; remarkable for its long-keeping quality.



NORTHERN SPY.

ties. An early and abundant bearer. November to February.

Dominie—A large, flattened, greenish-yellow apple, with red striped; flesh white, tender, juicy. Good grower, very productive; finest in the West. November to April.

Fallawater—(Fornwalder, Tulpehocken)—Very large, globular, yellowish-green, dull-red cheek; juicy, crisp, pleasant, sub-acid flavor. Tree a strong grower, very productive even while young. November to March.

Franklin Sweet—Originated in Franklin Co., Me., and is considered very desirable. Perfectly hardy and good quality; fair size; flesh white and very juicy; color similar to Bellefleur. Has been kept until March. A very valuable winter sweet apple.

Gano—Originated in Missouri. Form conical, good size and smooth; deep red, shaded on sunny side to mahogany; very attractive; flesh pale yellow, fine grained, tender, pleasant, mild, sub-acid; is a good shipper and keeper. Tree healthy, vigorous and hardy. An annual and prolific bearer. February to May.

Gideon—Raised in Minnesota, from Crab seed, by Mr. Gideon. An upright grower; medium to large; color yellow,

with vermillion blush on sunny side; mild acid; quality very good. December to March.

Grimes' Golden—(Grimes' Golden Pippin)—An apple of the highest quality; medium to large size, yellow. Tree hardy, vigorous, productive. January to April.

Hubbardston Nonsuch—Large; striped yellow and red; tender, juicy and fine; strong grower and good bearer. November to May.

Huntsman's Favorite—A valuable variety for South and West. Tree a good grower and hardy; bears young and regularly. A good sort for general use.

Hurlburt—Medium size, conical; yellow, shaded with red striped and splashed with darker red; flesh white, crisp and tender; juicy, mild, sub-acid, quality excellent; begins to bear while young and continues with regularity and constant crops; very hardy and suited to the extreme North. In season during midsummer.

Iowa Blush—A large, handsome apple. Good keeper. Tree vigorous and hardy. Flesh rich, sub-acid, excellent flavor. November to February.

Jonathan—Fruit medium roundish; skin yellow nearly covered with dark or lively red; fine grained, very tender

- and finely flavored. Tree slender and spreading, with light-colored shoots. November to April.
- King**—(Tompkins County)—Large and handsome; striped red and yellow. Tree vigorous and productive. One of the best. November to May.
- Lady Apple**—A beautiful little dessert fruit; flat, pale yellow with a deep red cheek; juicy, rich and pleasant. November to May.
- Longfield**—A Russian variety imported some years since. Tree a free, upright grower, early and abundant bearer; medium to large; yellow, with a blush on the sunny side like the Maiden's blush; rich, sprightly sub-acid; quality as good as the Fameuse and somewhat like it. December to March.
- Magog Red Streak**—Origin Vermont. Bears annually large crops; valuable for its extreme hardiness, vigor, productiveness and long-keeping; fruit medium, roundish, skin yellow, shaded with light red; flesh yellowish, a little coarse; moderately juicy, mild sub-acid. December to March.
- Mammoth Black Twig**—One of the most profitable of all apples. Resembles the Wine Sap, but is a better grower. An excellent keeper.
- Mann**—Fruit medium to large, roundish oblate, nearly regular; skin deep yellow when fully ripe; flesh yellowish, half fine, half tender, juicy, mild, pleasant, sub-acid. The tree grows straight and symmetrical and makes a large tree in the orchard. It is an early and annual bearer.
- McIntosh Red**—An exceedingly valuable, hardy, Canada sort; medium size, nearly covered with dark red; flesh white, fine, very tender, juicy and refreshing. A good annual bearer of fair, handsome fruit. Resembles the Fameuse, but larger and more hardy, and fully equal in quality to this standard sort. November to February.
- Milding**—Fruit large; skin smooth, whitish-yellow, splashed with rich red; flesh tender, juicy, sub-acid; tree a strong, fine grower and very productive. December to February.
- Mo. Pippin**—Large; rich red, with darker red stripes; very handsome and of fair quality.
- Monmouth Pippin**—(Red Cheek Pippin)—Large, greenish-yellow, with a fine red cheek; juicy, tender and good. Tree erect, good and productive. Keeps well till March or April.
- Newtown Pippin**—One of the very best apples as to quality. Tree a light grower while young. Very juicy, crisp and highly delicious flavor; fine keeper. Does not succeed in all sections. December to May.
- Nodhead**—(Jewett's Fine Red)—Medium size; greenish, white striped and splashed with crimson having a dull, grayish bloom; flesh tender, juicy, almost sweet. Popular in Northern New England on account of its great hardiness. A good grower and bearer.
- Northwestern Greening**—This apple is the best keeper we have—keeping in good condition generally till May. The apple is very large and of beautiful form, and being of fair quality is bound to become very popular. The tree, when young, is a fine upright grower; spreading top when bearing.
- Northern Spy**—Large; roundish, slightly conical, somewhat ribbed, striped, with the sunny side nearly covered with purplish-red; flesh white and tender with a mild, sub-acid, rich and delicious flavor; in perfection in January and keeps till June. The tree is a strong, upright grower, and forms a very compact head. Should be kept open by pruning so as to admit the air and light freely.
- North Star**—Large; very handsome; perfectly hardy; vigorous, quality fine; a seedling of Duchess, which it resembles, but less tart and better quality.
- Okabena**—Originated near Lake Okabena, Minn. It is a hardy, vigorous grower; early and productive bearer. Fruit medium size, striped with red similar to Duchess; quality good with mild sub-acid flavor; season medium. Good dessert and cooking apple. This is an excellent variety to follow Duchess.
- Opalescent**—New. All who have examined the Opalescent regard it as the handsomest apple grown. It is not only highly colored but susceptible of a very high polish, reflecting objects near it like a mirror. This feature makes it a highly prized sort for fruit stands. The flesh is yellowish, tender, juicy and good, size large to very large and color light shading to very dark crimson. Season December to March.
- Ontario**—A cross between Wagener and Northern Spy. Fruit large to very large; flavor a brisk sub-acid, sprightly, slightly aromatic; season mid winter to late winter. One of the best apples both for commercial purposes and for home use.
- Paragon**—Large to very large; deep red; tender yet firm; one of the handsomest apples grown; quality extra good. Tree hardy, vigorous, very productive. Season December to May.
- Patten's Greening**—Seedling of the Oldenburg and equals it as an orchard tree in hardiness and bearing. Large uniform size, pleasant, acid, good

- equally for eating and cooking. Season October to January or later.
- Peck's Pleasant**—Large; pale yellow, very tender and rich, with a Newtown flavor. Tree erect and fine bearer. November to March.
- Peerless**—Tree a very fine, straight, upright grower. Originated from seed of Duchess planted by J. G. Miller, near Faribault, Minn. It is quite hardy and productive; fruit medium size, of a pleasant, sub-acid flavor; color, red on a yellowish-green ground. Stem short and hangs on the tree well; perfectly hardy here.
- Pewaukee**—A seedling from Duchess. Fruit medium to large, striped and splashed; flesh yellowish-white; flavor sub-acid, rich, aromatic, spicy; quality good. Tree strong grower and very hardy. January to June.
- Plumb's Cider**—A native of Wisconsin, where its hardiness has been abundantly proved. Tree vigorous, round-headed and productive. Flesh whitish, fine, tender, juicy, mild, sub-acid. September to January.
- Pryor's Red**—Medium, juicy, pleasant, very rich, sub-acid. January to March.
- Rawle's Janet**—(Never Fail)—Medium, roundish, ovate, greenish-yellow, streaked with red; crisp, rich and juicy. One of the best and longest keepers in the South and Southwest.
- Red Canada**—(Old Nonsuch of Mass., Steele's Red Winter)—Medium, oblate, red, tender, crisp, rich, sub-acid, refreshing and delicious. Tree thrifty, but a slender grower. Productive. January to May.
- Red Russett**—Said to be a cross between the Baldwin and Rox Russet. Good grower, regular bearer, and resembles the Baldwin. Flesh crisp, juicy, pleasant sub-acid. Keeps till April and May. Good eating in February. Fruit always large, uniform and handsome.
- Rhode Island Greening**—Large; greenish-yellow; tender, juicy and rich, with rather an acid flavor, growing strong and spreading and an abundant bearer. December to April.
- Rolfe**—Originated in Maine, about the 45th degree. Fruit large, of magnificent appearance; color dark red; an abundant and annual bearer, and where known the fruit outsells all others of its season. Quality prime, both for eating and cooking. One of the very best. November to January.
- Rome Beauty**—Large, yellow, shaded with bright red; flesh yellowish, tender, juicy, sub-acid; moderate grower. November to February.
- Rubicon**—A comparatively new apple, most beautiful and showy; a poor grower and regular bearer; medium size; yellow, shaded with bright red; juicy and firm, with brisk, sub-acid flavor. December to June.
- Russet, Golden**—Medium size, dull russet with a tinge of red on exposed side; flesh generally crisp, juicy and high flavored. Tree vigorous grower and a great bearer; very popular. November to April.
- Russet, Roxbury or Boston**—Medium to large; greenish or yellow russet; crisp, good, sub-acid flavor. Tree vigorous and productive; very popular on account of its long keeping. June.
- Salome**—New, hardy, productive; keeps the year around; ripens into fine condition in winter and remains fresh, plump and juicy till summer. Has stood the test and proved itself without a rival. January to May.
- Seek-no-Further**—(Westfield)—Medium to large, slightly russeted with dull red stripes; tender, rich, spicy and fine; good grower and bearer. November to February.
- Smith's Cider**—Medium, striped; flesh tender, juicy, sub-acid; very popular in Pennsylvania and Western States. December to March.
- Spitzenburg, Esopus**—Medium to large, deep red; flesh yellow, crisp, sub-acid, high flavored. Tree a light grower in the nursery, but bears and grows well transplanted in rich soil. November to April.
- Stark**—Esteemed as a long keeper and valuable market fruit. Fruit large roundish; skin greenish yellow, much shaded with light and dark red; and sprinkled with brown dots; flesh yellowish, juicy, mild sub-acid. January to May.
- Sutton Beauty**—Fruit large, waxy yellow striped with crimson; flesh white, tender, juicy, mild acid; quality good and a remarkable keeper. Tree vigorous, a handsome grower, very productive. One of the most valuable market sorts in Western New York.
- Talman's Sweeting**—Medium, pale yellow, slightly tinged with red; firm, rich and very sweet; the most valuable baking apple; vigorous and productive. November to April.
- Wagener**—Medium to large; deep red in the sun; flesh firm sub-acid and excellent; very productive, bears very young. December to May.
- Walbridge**—Medium size, striped with red; handsome, and of excellent quality; vigorous grower and productive; very hardy and considered of great value in the North and Northwest. March to June.
- Wealthy**—A native of Minnesota, where it has proved perfectly hardy, vigorous and productive; fruit of medium size,

- red, streaked with white; quality good. December to February.
- Willow Twig**—Tree hardy and productive; fruit tender, with a pleasant sub-acid flavor. Valuable for late keeping.
- Wine Sap**—Medium, dark red, sub-acid, excellent. Tree a moderate grower and abundant bearer. A favorite market variety in the West. December to May.
- Winter Banana**—It has stood the severest tests. Tree is hardy and will succeed in very cold climates; its wonderful productiveness will bring quicker and larger returns than any other apple in the orchard. The fruit has a richness of flavor that cannot be described. It surpasses in aromatic taste the choicest pear, plum, apricot, peach, cherry or any other fruit grown. Flavor very rich, spicy and aromatic. Flesh golden yellow, fine grained, firm and juicy. Tree a very strong grower and will grow to be a tree of immense size, very suitable for lawn or shade, the leaf being nearly double the size of other apple sorts.
- Wismer's Dessert**—Size medium to large. Smooth, beautifully colored with yellow, shaded with bright red, in strips and blotches, marked with russet dots. Exquisite delicious flavor, juicy, melting, buttery, pear like texture. Tree a strong grower and extremely hardy. Originated in Northern Ontario, Canada. Season November to April.
- Wolf River**—Tree very hardy and productive; fruit large and handsome, red color, flesh white and of exceedingly fine quality; sub-acid.
- Yellow Bellflower**—Tree a strong grower and abundant bearer; fruit medium to large; flesh white, fine grained, tender, juicy, sub-acid. November to February.
- York Imperial**—Of medium size, truncated, oval, angular; skin greenish-yellow; flesh tender, crisp, aromatic. Highly esteemed in Pennsylvania, where it originated.

EXTRA HARDY, OR IRON-CLAD APPLES

The opinion has prevailed that the attempt to produce valuable apples in the Northern sections of New York, New England and the adjoining portions of Canada, Wisconsin, Minnesota and other sections unfavorable for general fruit growing, must prove a failure. While this is true as to many varieties successfully grown in more temperate or favorable regions, its general application is quite erroneous. Experience in growing Russian or other varieties of Northern origin, has shown that a limited variety of fine apples can be grown as far North as Montreal, and that some of these varieties may be planted with equal profit in all sections, North and South.

Select varieties best adapted to your location and in case you are not familiar with the varieties, we will be pleased to assist you at any time.

CRAB APPLES

Within the past few years much attention has been given to improving this class of fruit, because of their adaptability to cold sections, where only a few varieties of apples can be successfully grown. These efforts have been attended with marked success. Crab apples succeed equally well in all sections, and are valuable for cider, preserving, jelly, ornament and some of the improved sorts are excellent for eating. Sent to the Eastern markets they command a very high price.

- Excelsior**—Raised from seed of Wealthy, in Minnesota. Very hardy, productive and one of the best flavored varieties. September.
- Florence**—Originated in Minnesota. The hardiest of all; an early and profuse bearer; when in full fruit the most ornamental tree grown; larger and far superior to Transcendant. Ripens about the same time.
- General Grant**—Tree an erect, vigorous grower; fruit in dense clusters; quality equal to Duchess of Oldenburg. October to December.
- Heve's Virginia**—Rather small; round, acid; esteemed for cider.
- Hyslop**—Almost as large as Early Strawberry Apple; deep crimson; very popular on account of its large size, beauty and hardiness. Keeps well into the Winter.
- Lady Elgin**—Fruit beautiful, resembling the Lady Apple. Flesh yellowish, moderately juicy, mild sub-acid. Tree a vigorous grower and very productive. November and December.
- Large Red Siberian**—About an inch in diameter, grown in clusters; yellow, lively scarlet cheek. Tree erect, vigorous, bears young and abundantly. September and October.
- Large Yellow Siberian**—Nearly as large as above; fine amber or golden-yellow color.
- Martha**—Raised from the seed of Duchess of Oldenburg. Resembles the Transcendant, but larger. Handsome, showy fruit; bears enormously; said to be equal if not superior to all others for sauce.
- Montreal Beauty**—Fruit large, bright yellow, nearly covered and shaded with



MARTHA

PEARS

The cultivation of this noble fruit is rapidly extending as its value is appreciated. The range of varieties is such that, like apples, they can be had in good eating condition from August until early spring.

The melting, juicy texture, the refined flavor and the delicate aroma of the Pear, give it rank above all other fruits except the Grape. The Pear, like most things highly desirable, and valuable, cannot be had without attention and labor. The relative prices of the Apple and Pear being about as one to five, purchasers of the latter can well afford to give the trees the high cultivation necessary to secure the best results.

Dwarf Pears must always be planted sufficiently deep to cover the junction of the Pear and Quince two or three inches—the soil made rich and well tilled and about one-half the previous summer's growth cut off each spring. Under this treatment Dwarfs are everywhere successful. The side branches should not be removed higher than one foot from the ground in Dwarfs, while the Standards may be trimmed to the height desired. Train in pyramidal form. Ripen the fruit in the house. Gather when, on gently lifting the fruit, the stems will readily separate from the limb. Place in a dark room until fully matured. Winter Pears may hang on the trees until there is danger from frost, then place in a dry cellar for maturing.

The letters "D or S" appended to the descriptions of varieties, indicates favorable growth, either as "Dwarfs" or "Standards" and when placed together, that they succeed as either. Those designed as "slow growers" are usually small trees.

SUMMER

Bartlett—Large size, often with a beautiful blush next the sun; buttery, very juicy and high flavored. Tree a strong grower, bearing early and abundantly. Very popular. Last of August and first of September. S.

Beurre Giffard—An excellent variety; medium; greenish-yellow, red in the sun; very early. Tree slender but healthy; very productive. August. D. & S.

Brandywine—Above the medium; yellowish-green, melting, sweet. Vigorous and

rich red; one of the most beautiful of all Crabs in appearance. Flesh yellowish, rich, firm and acid. Very good. October and November.

Orange—Tree moderate grower, an annual and abundant bearer. Fruit larger than Transcendent. Flesh firm, crisp, juicy and delicious. October to December.

Quaker Beauty—A hardy, strong-growing sort; bears large crops of fine fruit. December to May.

Transcendent—Medium to large; roundish, oblong; golden yellow, with a rich crimson cheek, covered with a delicate white bloom; flesh yellow, crisp and when fully ripe, pleasant and agreeable; perfectly hardy; young and abundant bearer. September and October.

Van Wyck—Large; skin mottled with bright red; sweet. Tree vigorous.

Virginia—Unsurpassed by any other. Tree hardy. Fruit highly flavored.

Whitney's Seedling—Large, averaging one and a half to two inches in diameter; skin smooth, glossy, green striped, splashed with carmine; flesh firm, juicy and rich. A great bearer and very hardy. Tree a vigorous handsome grower. Has no superior.

productive. Last of August. D. & S.
Clapp's Favorite—A large, fine pear, resembling the Bartlett, but without its musky flavor; pale lemon-yellow, with brown dots; fine texture, melting, buttery, juicy, with a rich, sweet, delicate vinous flavor. Tree hardy and very productive. Very desirable in all sections and especially so where other varieties fail. August and September. D. & S.

Dearborn's Seedling—Rather small; pale yellow, melting and delicious. Tree

vigorous, rapid grower; bears young and abundantly. August. D. & S.

Doyenne d'Ete—Small; melting, sweet, yellowish. Tree vigorous and productive. D. & S.

Koonce—The handsomest, best and most valuable very early pear.

Lawson—Tree healthy, a strong grower, early bearer and profitable sort. Of splendid quality for a very early pear. It colors beautifully. Red cheek with yellow shading.

Le Conte—Tree very vigorous and productive, partaking of the nature of the Chinese Sand Pear, of which it is a seedling. Fruit large, skin smooth, pale yellow. Quality fair. Ripens about with Bartlett.

Madeleine—Medium; yellowish-green very juicy, melting, sweet. A fair grower and productive. August. D. & S.

Manning's Elizabeth—Small to medium; bears in clusters; crimson and gold color; very beautiful; melting, rich,

sugary, sprightly, perfumed flavor; excellent. Tree a good grower and very productive. One of the very best early pears. August.

Osband's Summer—Medium; yellow, with red cheek; half melting, mild and pleasant; fine flavor and excellent. A fair grower and productive. August. D. & S.

Petite Marguerite—Medium size; skin greenish-yellow, with brownish-red cheek and covered with greenish dots. Flesh fine, melting, juicy, vinous and of first quality. Upright grower and an early and abundant bearer. Succeeds admirably as a Standard or Dwarf. August or September.

Rossney—A new and excellent pear, raised from seed at Salt Lake City, Utah. In size medium to large; very fine grain, flesh melting and juicy; very sweet. Ripens two weeks after Bartlett.

Souvenir du Congress—Imported from France, and of great promise. Fruit large and exceedingly handsome; beautiful yellow, with bright red in the sun; melting and juicy with a musky flavor, rather tender. September. S.

Tyson—Rather large, bright yellow, with brown cheek; melting, sweet and delicious. September. D. & S.

Wilder—Handsome, melting, sweet, pleasant and of the best quality for an early pear. One of the best keeping pears.

AUTUMN

Columbia—See Bartlett-Seckel.

Belle Lucrative—(Fondante d'Atonne)—A fine large pear; yellowish-green, slightly russeted; melting and delicious. Good grower and productive. September and October. D. & S.

Beurre Bosc—Large; yellow russet; half melting, high flavored and excellent. September and October. S.

Beurre Clairgeau—Very large, pyriform; yellow and red; nearly melting, high-flavored. Tree a very good grower, an early and abundant bearer. A magnificent market fruit. One of the finest acquisitions. October and November. D. & S.

Beurre d'Anjou—A large, fine pear, buttery and melting, with sprightly, vinous flavor. Tree a fine grower and good bearer. October to January. D. & S.



AUTUMN

Bartlett-Seckel—A cross between the Bartlett and the Seckel, combining in itself the richness and high flavor peculiar to these well-known varieties. Tree hardy, vigorous and productive. Fruit of good size, well colored and handsome.

CLAPP'S FAVORITE.

remembered that peaches are all borne on wood of the previous season's growth, and that this makes it absolutely necessary to prune the trees yearly, to remove dead branches and to let in light and air, and keep the trees in good shape to produce bearing wood.

Admiral Dewey—This is another triumph in the production of very early peaches. There is no known variety that can compare with it in all the qualities that go to make a desirable early market variety. Perfect freestone.

Alexander's Early—(Alexander)—Originated near Mt. Pulaski, Ill. Medium size; skin greenish-white nearly covered with rich red, flesh melting, juicy, sweet. Tree vigorous and productive. Ripens two weeks earlier than Hale's Early.

Amelia—Very large, conical; white, nearly covered with crimson; juicy, melting, vinous, sweet and of high flavor. July 1st to 10th.

Amsden's June—(Amsden)—Originated at Carthage, Mo., in 1882. Medium size; skin greenish-white, nearly covered with purple in the sun; ripens with the Alexander and closely resembles that variety, but some think it a little higher flavor.

Barnard's Early—A fine yellow peach of good quality. Very popular in Michigan. An excellent canner.

Baldwin's Late—Large, oblong; greenish-white with red cheek; juicy and well-flavored. October 10th.

Beer's Smock—Large to very large; yellow, with red cheek; flesh yellow and of the very best quality for the season; freestone. A regular and enormous bearer, making it very desirable for market purposes. Last of September.

Belle of Georgia—Very large; skin white, with red cheek; flesh white, firm, and excellent flavor; the fruit is uniformly large and shows very prolific bearer.

size; firm, yellow; very handsome and of good quality. Ripens between Crawford's Late and Smock.

Champion—Very large; many specimens measuring ten inches in circumference; creamy-white with red cheek; flavor delicious, sweet, rich and juicy; very hardy, productive. August. Free.

Chinese Cling—This type has of late years produced several improved seedlings, which, although not all attaining the enormous size of the original variety, are, however, of better flavor and less predisposed to decay, and of less straggling habit of growth.

Conklin—A new, large, beautiful, golden-yellow peach, marbled with crimson; succeeds the Crawford's Early; of fine quality; very handsome.

Coolidge's Favorite—Large, white with crimson cheek; flesh pale, very melting and juicy, with a rich, sweet and high flavor; beautiful and excellent. Tree vigorous and productive. Last of August.

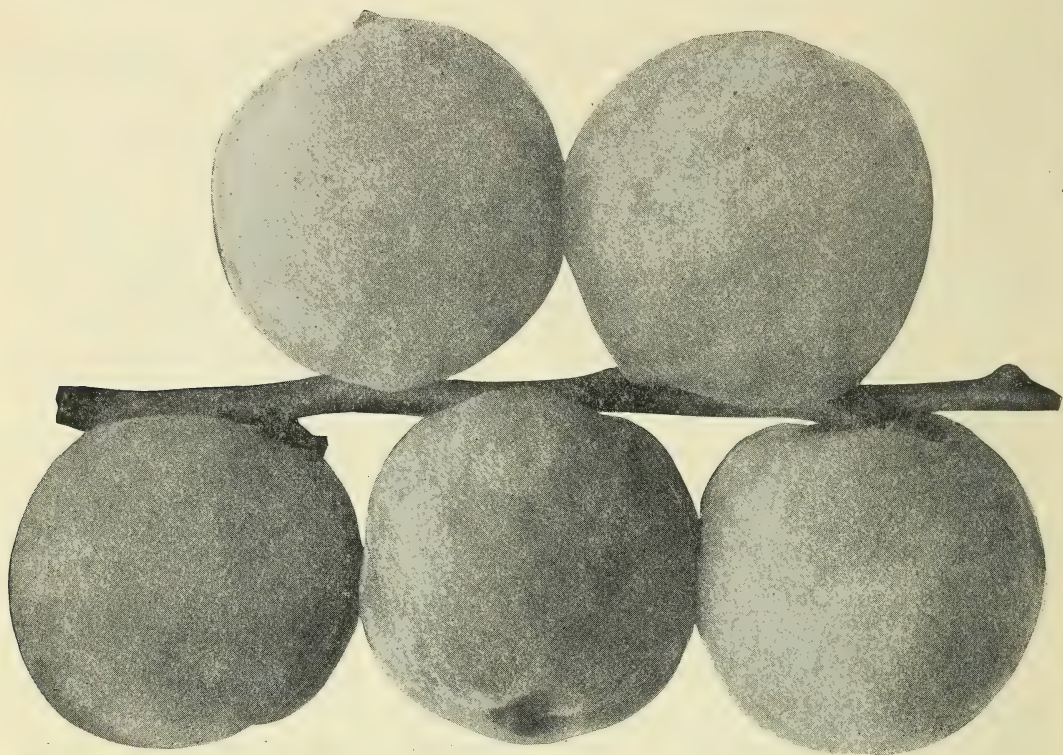
Crawford's Early—A magnificent, large, yellow peach of good quality. Tree vigorous and very productive. Its fine size, beauty and productiveness makes it one of the most popular sorts; no other variety has been so extensively planted.

Crawford's Late—(Late Crawford)—Fruit of large size; skin yellow, or greenish-yellow, with dull red cheek; flesh yellow. Tree vigorous, moderately productive; one of the finest late sorts. Last of September.

Crosbey—(Excelsior)—Originated near Lowell, Mass. Tree low, spreading, willowy habit of growth; fruit buds hardy, so that "Crosbey" produces full annual crop where others fail; fruit medium size, rich orange yellow, splashed with carmine on the sunny side; perfect freestone; pit small; flesh yellow, juicy, tender, sweet and rich.

Early Canada—Originated at Jordan, Canada. As early as the earliest. Of good size, of firm quality and handsome appearance. Its earliness, origin, and the fact that the flesh cleaves from the stone almost as freely as with the later varieties, creates an unusual demand for trees of this variety.

Early Louise—Larger than Early Beatrice, which it succeeds immediate maturity; very thin skin and delicate aroma; excellent variety for home consumption only, as it is too tender to carry great distances. Maturing from June 8 to 15th. Tree very prolific.



ELBERTA

✓ **Early Rivers**—Large; color creamy white, with a delicate pink cheek; flesh melting, with a remarkably rich flavor. Larger and ten days later than Alexander. One of the finest peaches for home use or near-by market.

✓ **Early Tillotson**—Medium, white, covered with red, melting, good; very prolific; a favorite market variety; stands shipping well. Ripe from June 20th to 25th.

✓ **Early York**—Medium size, greenish-white, covered in the sun with dull red; flesh greenish-white, very tender.

✓ **Elberta**—The great market peach of the South and Southwest. It is perfectly hardy at the North, and is confidently believed by the most experienced fruit growers of the North to be one of the very best peaches for home use or market. Ripens with Crawford's Early.

✓ **Everbearing**—One of the most remarkable peaches of the season. The first ripening averages $3\frac{1}{2}$ inches long by 3 inches broad. The size of the second and following crops diminishes gradually, until that of the last ripening is about two inches in diameter. A supply of the fruit may, therefore, be secured from the same tree for several weeks.

✓ **Fitzgerald**—A seedling found at Oakville, Ontario, where it stands the winters perfectly, and for the past four years has cropped regularly. It is undoubtedly

ly very hardy, and the fruit averages larger than any variety we know of. Quality first-class, freestone, and we recommend it with entire confidence.

✓ **Flaters, or Yellow St. John**—Large roundish, orange-yellow, with deep red cheek; juicy, sweet and high flavored; flesh yellow; prolific, an excellent peach. It ought to have a place in every orchard. Middle of June.

✓ **Foster**—Originated in Medford, Mass. Large deep orange red, becoming very

great quantities. Last of August.

Waterloo—Of medium to large size; color whitish-green, marbled with red, deepening into dark purple crimson in the sun; flesh greenish-white, with an abundance of sweet, vinous juice; adheres some to the stone, like Amsden, Hale's Early, etc. July 14th.

Wheatland—Originated with D. S. Rogers, near Rochester, N. Y. Mr. R., who has large orchards, including the leading sorts, thinks this is the finest of all. Fruit large; color golden-yellow,

low, with crimson tint; flesh firm and of fine quality. Ripens between Crawford's Early and Late.

Wonderful—A freestone; color rich golden-yellow, overspread with carmine. It ripens after nearly all other varieties have disappeared, and is a remarkable keeper. Tree wonderfully prolific.

Yellow Rareripe—Large deep yellow, dotted with red; melting, juicy, with a rich flavor. Ripens one week later than Crawford's Early. Closely resembles Jacques' Rareri

NECTARINES

A most delicious, smooth skinned fruit, which thrives wherever peaches will grow, but is liable to be stung by curculio and requires the same treatment as plums.

Boston Nectarine—Very large and handsome; deep yellow, with a bright blush, and mottles of red; flesh yellow to the stone; sweet, with a pleasant and peculiar flavor. Freestone.

Early Violet—Medium size; yellowish-green, nearly covered with dark purplish red; juicy, rich and highly flavored. Last of August.

Elruge—Medium size; pale green, with

dark red cheek; flesh pale green, very juicy and rich. First of September.

New White—Large, white, nearly round; flesh white, tender, very juicy, with a rich, vinous flavor; stone small, and separates freely. August.

Red Roman—Largest size; greenish-yellow, with a dark, dull, red cheek; flesh yellowish; fine grower and productive. First of September.

APRICOTS

A delicious fruit of the plum species, valuable for its earliness. It is liable to be attacked by curculio and requires the same treatment as the plum. It bears immense crops, ripening in July and August.

Alexander—Very hardy; an immense bearer; fruit large, yellow, flecked with red; very beautiful, sweet and delicious. July.

Alexis—Very hardy; an abundant bearer. Yellow, with red cheek; large to very large; slightly acid, rich and luscious. July.

Breda—Small; dull orange, marked with red; juicy, rich and vinous. Productive and hardy. First of August.

Catherine—Very hardy, vigorous and productive; medium sized; yellow; mild sub-acid; good.

Early Golden—(Dubois)—Small; pale orange, juicy and sweet. Hardy and productive. First of July.

Gibb—Tree hardy, grows symmetrical, productive; fruit medium, yellowish sub-acid, juicy and rich. Last of June.

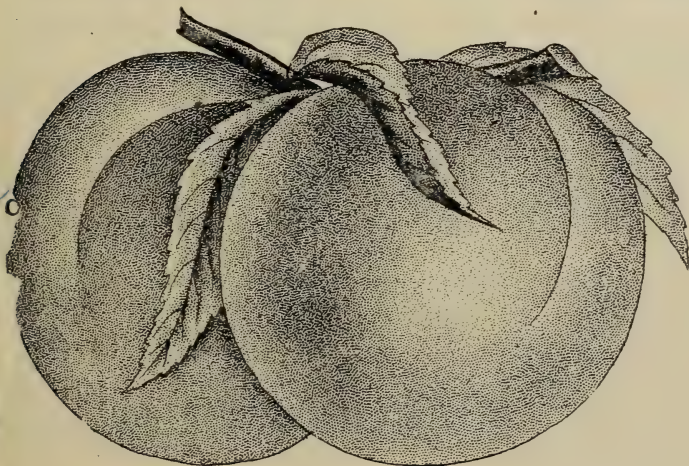
Harris—Equal in size and quality to the best cultivated; recommended for its hardiness and good bearing qualities June 20th to July 1st.

J. L. Budd—Tree a strong grower and profuse bearer. Fruit large, white, with red cheek; sweet, juicy, with a sweet kernal, as fine flavored as an almond. The best late variety, and a decided acquisition. August.

Moorpark—One of the largest, orange, with a red cheek; firm, juicy, with a rich flavor; very productive. August.

Nicholas—Tree hardy and prolific; fruit medium to large; white, sweet and melting. A handsome and valuable variety. July.

Peach—Very large; orange, with a dark cheek; juicy and highly flavored.



MOORPARK

QUINCES

The Quince is of late attracting a great deal of attention as a market fruit. Scarcely any fruit will pay better in the orchard. The tree is hardy and compact in growth, requiring but little space; productive; gives regular crops and comes early into bearing. The fruit is much sought after for canning for winter use. When put up in the proportion of about one quart of quinces to four quarts of other fruit it imparts a delicious flavor.

It flourishes in any good garden soil, which should be kept mellow and well enriched. Prune off all the dead and surplus branches, and thin out the fruit if bearing too freely.

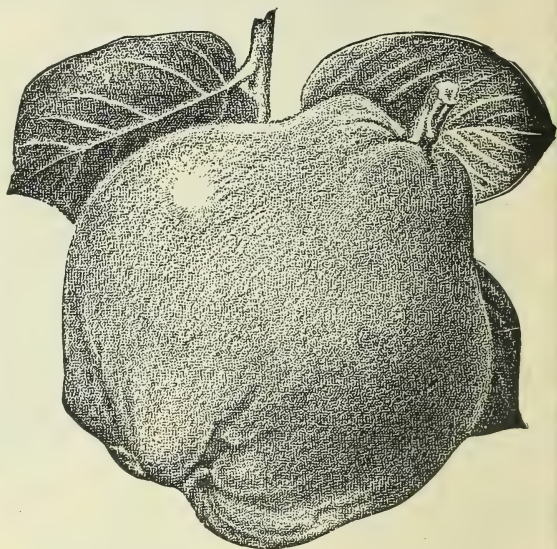
Bourgeat—A new, golden, prolific variety, of the best quality; ripening shortly after Orange and keeping until mid-winter. Tree a remarkably strong grower, surpassing all others.

Champion—Fruit very large, fair and handsome, surpassing other varieties in this respect; bears abundantly while young; flesh cooks as tender as an apple and without hard spots or cores; flavor delicate, imparting an exquisite quince taste and odor to any fruit with which it is cooked. The most valuable of all.

Meech's Prolific—The most prolific of all known varieties; ripens between the Orange and Champion. Bears very early, usually a full crop at three years; quality unsurpassed and size large.

Orange—Large, roundish; bright golden-yellow; cooks tender and is of very excellent flavor. Valuable for preserves or flavoring; very productive; the most popular and extensively cultivated of the old varieties. October.

Pineapple—The name comes from the flavor which is suggestive of the pineapple. The fruit in form and size resembles the Orange Quince, but is smoother and more globular. Makes a superior jelly; possessing a most exquisite and delicious flavor not equalled



ORANGE

by any other quince.

Rea's Mammoth—A seedling of the Orange Quince; one-third larger, of the same form and color; fair, handsome; equally as good and said to be as productive. Tree a hardy and healthy grower.

GRAPES

The Grape is the most healthful of all fruits, and the most highly esteemed for its many uses. It can be secured by every one who has a garden, a yard or a wall. It can be confined to a stake, bound to a trellis, trained over an arbor or extended until it covers a large tree or building, and it still yields its graceful bunches and luscious, blooming clusters. Capable of most extraordinary results under wise management, it is prone, also to give the greatest disappointment under bad culture or neglect. Other fruits may be had from plants that know no care, but grapes are only to be had through attention and forethought. We will endeavor to point out a few essential points in its successful culture, and refer the cultivator to other and more extended works for more details.

Soils—Good grapes are grown on various soils, sandy, clayey, loamy, etc. The soil must be well drained, and there should be a free exposure to the sun and air. Hillsides, unsuitable for other crops, are good places for grapes.

Crops—Crop grapes moderately if you would have fine, well-ripened fruit. A vine is capable of bringing only a certain amount of fruit to perfection, proportioned to its size and strength; but it usually sets more fruit than it can mature; reduce the crop early in the season to a moderate number of good clusters and cut off the small inferior branches; the remainder will be worth more than the whole would have been. A very heavy crop is usually a disastrous one.

Pruning—Annual and careful pruning is essential to the production of good grapes. If the roots are called upon to support too much wood, they cannot bring to maturity a fine crop of fruit. The pruning should be done in November, December, February or March, while the vines are entirely dormant.

Training Vines—There are many methods of training grape vines, but as trellises are most generally employed, we will confine our suggestion to a description of the trellis method. To construct a trellis take posts of oak, cedar or chestnut 8 to 10 feet long, set them 3 feet in the ground and about 12 feet apart. Stretch No. 9 galvanized wire tightly along the posts and fasten them to each. Let the first wire be 18 inches from the ground and the distance between the wire 12 inches. Wooden slats about one by two inches may be substituted for wires. Trellises should be at least 10 feet apart, a greater distance preferable. Set the vines about 20 feet apart. Prune the vines to two canes for two years after they are planted. In February or March these canes should be cut back to 5 or 6 feet each, and tied along the lower wire or slat of the trellis horizontally.



FRUITED GRAPE VINE

When the growth commences in spring the young shoots must be reduced by disbudding so that they may stand about a foot apart on the cane, selecting of course strong healthy shoots; as they grow they are tied up to a second, third and fourth wire or slat, and all other superfluous ones removed, as well as the young laterals, which will appear on vigorous vines; but the first fruit-bearing shoots are allowed to extend themselves at will until September, when they may be pinched off at the end to assist the ripening of the wood. The vine in autumn, with the fruit on, will present the appearance of the above cut and before pruning in the autumn, after the leaves are off the following appearance. The next pruning, which may be done in November or December, if it is desirable to lay the vines down and cover them over for the winter; or in February or March if not laid down, consists in cutting back all young wood of the previous year's growth (except such shoots as may be required to extend the horizontal arms), to within one or two good buds of the bearing canes on the lower wire, giving the vine the appearance of the following cut:



BEARING VINE BEFORE PRUNING



PRUNED VINE

Each season thereafter the vines are to be treated in the same manner, cutting back every year to the lower wire or slat, extending the vine only in a horizontal direction, thinning vines in the rows by digging up every other plant, if necessary, but never growing any grape above the second wire, and renewing the bearing canes by new shoots from the stumps when required.

Gathering and Keeping—Grapes for keeping, to be used in their fresh state, should be allowed to remain upon the vines until perfectly matured, but not much longer. Pick them when perfectly dry. Let them stand in open baskets or boxes for about ten days in a cool, dry room, and after sorting out all decayed and imperfect berries, pack them in shallow boxes and cover closely. Use no paper, but basswood or elm boxes, if convenient. Pine and other resinous woods should not be used, as they flavor the fruit disagreeably. After packing, keep the boxes where it is both cool and dry. Under careful management some varieties may be kept until spring.



CLASS I—BLACK GRAPES

Barry—(Rogers' No. 43)—Bunch large, but rather short; berries large, roundish, much like Black Hamburg; delicate, sweet and tender. Ripens with Concord. Vine vigorous and productive. One of the largest and finest of the Rogers' Hybrids.

Campbell's Early—This is not a chance seedling, but the result of carefully conducted experiments by the originator through successive crossings of the most promising varieties which he had produced or tested within the past thirty years.

Champion—A large grape of medium quality; a strong grower and very hardy; the earliest of all; succeeds in all sections, and this makes it one of the most valuable market grapes.

Clinton—Bunches small and very compact; berries small and sprightly. When thoroughly ripe is a good table grape and keeps well.

Columbian—Very strong grower, with thick, leathery leaves. Regarded with high flavor on account of its large size, showiness and early ripening. Ripens with Moore's Early.

Concord—A large, handsome grape, ripening a week or two later than Isabella; very hardy and productive. Succeeds over a great extent of country, and, although not of the highest quality, it is one of the most popular market grapes.

Early Ohio—The earliest black grape known; ripens ten days to two weeks before Moore's Early. Bunch large, compact and shouldered; berry medium, covered with heavy bloom; leaves very and perfectly healthy. Fully as hardy or more so than the Concord. A vigorous grower, very productive and of good quality. Berry adheres firmly to the stem. One of the best shippers.

The only early grape that will not shell.

Eaton—Black; bunch and berry of the very largest size; not quite so early nor sweet as its parent, the Concord, but less foxy; pleasant, juicy, with tender pulp. Vine very vigorous, healthy and productive. Originated in Massachusetts: tts.

Hartford Prolific—Bunches rather large; berries large, globular; color almost black, covered with a beautiful bloom; of a fair quality, ripens three weeks before the Isabella; valuable for its abundant bearing and early maturity.

Isabella—An old standard sort, highly prized where it will thoroughly mature. Bunches long, large, loose; berries large, oval, sweet and musky; a good keeper.

Merrimac—(Rogers' No. 19)—Bunch medium to large; berry large, sweet and rich; vigorous and productive; one of the earliest and best of the Rogers' sort.

Mills—Black. Originated in Canada. Vine vigorous, hearty and healthy; supposed to be a cross between a native and foreign variety; bunch very large, long and shouldered; berry medium to large; adheres firmly to the stem; flesh firm, meaty, rich and sprightly.

McPike—Originated by H. G. McPIKE, of Mount Lookout Park, Alton, Illinois. A seedling of Worden, with all its good qualities, unequalled leaf, perfect character in every point, superb quality, color and flavor like the Worden; berries very large, measuring over three inches in circumference; easily the best grape grown.

Moore's Early—Bunch large; berry round (as large as the Wilder or Rogers' No. 4); color black, with a heavy blue bloom; quality better than Concord;

vine exceedingly hardy; has never been covered in the winter, and has been exposed to a temperature of more than twenty degrees below zero without injury to it; has been entirely exempt from mildew or disease. Its earliness makes it desirable for an early crop, and more particularly adapts it to New England and the northern portion of the United States, maturing as it does, ten days before the Hartford and twenty before the Concord.

Wilder—(Rogers' No. 4)—Large and black; bunches generally shouldered; berry round and large; flesh buttery, with a somewhat fibrous center; sweet, rather sprightly; ten days earlier than the Isabella.

Worden—This new variety is a seedling of the Concord, which it greatly resembles in appearance and flavor, but the berries are larger. The fruit is said to be better flavored and to ripen several days earlier.

CLASS II—RED AND PURPLISH GRAPES.

Alice—A red grape, of very vigorous growth and hardiness; in quality fully equal to Delaware by actual test. Ripening with or before Concord and keeping in perfect condition, without cold storage throughout the winter. It does not shell and under suitable conditions will raisen instead of rot. Vine very productive.

Agawam—(Rogers' No. 15)—Large, round, early and of great vigor of growth. Rich, peculiär aromatic flavor. Considered by Mr. Rogers as the best of his strictly red Hybrids. September.

Amber Queen—A new and promising variety which originated in Massachusetts. Bunch and berry of medium size; color light amber; flesh tender to the center; juicy, sprightly and delicious. Larger than and as early as Delaware.

Brighton—A cross between Concord and Diana Hamburg. Flesh rich, sweet and of the best quality. Ripens earlier than Delaware. Vine vigorous and very hardy. This variety has now been thoroughly tested, and without an equal among early grapes.

Catawba—Well-known as the great wine grape of Ohio, Kentucky, etc. Bunches large and loose; berries large, of a coppery-red color, becoming purplish when well ripened, two weeks later than Isabella; requires the most favorable soils and situations, good culture and warm seasons to mature in Western New York.

Delaware—Still holds its own as one of the finest grapes; bunches small, compact, shouldered; berries rather small, round; skin thin, light red; flesh very juicy; without any hard pulp, with an exceedingly sweet, spicy and delicious flavor. Vine moderately vigorous, hardy and productive. Ripens two weeks before the Isabella.

Goethe—(Rogers' No. 1)—Vine vigorous, productive; flesh tender to the center, juicy, sweet pleasant, slightly aromatic. A good grape.

Jefferson—Vine very vigorous, extremely hardy; bunch very large, often double, shouldered, compact; berries large, roundish oval; light red, with a thin lilac bloom; combines the sugary richness of the Brighton, the tender meaty flesh of the Iona, with just enough vinous flavor to make the fruit deliciously sprightly and unsurpassed. Ripens with Concord.

Lutie—It is the earliest in market; never known to rot; vine perfectly hardy, a strong grower and enormously productive. Vines two years old from cuttings have produced each twenty-five pounds of choice fruit. Flavor equal to Delaware, sweet and rich.

Lindley—(Rogers' No. 9)—Bunch long and compact; flesh sweet; ripens soon after Delaware. One of the best and earliest of the Rogers'.

Moyer—A new grape originated in Canada. In habit of growth and hardiness it resembles the Delaware very much but ripens earlier. Flavor sweet, delicious; skin tough but thin; pulp tender and juicy.

Perkins—Vine vigorous and productive; bunch compact and shouldered; ripens before Isabella.

Salem—(Rogers' No. 22)—This is regarded as the best of Mr. Rogers' hybrids. Bunch large; berry large, round; flesh tender, juicy, with a rich, aromatic flavor; slight pulp; a good keeper.

Vergennes—Originated at Vergennes, Vt., near Lake Champlain. The Originator says of it: "Clusters large; berries large; color light amber; flavor rich and delicious, ripening here fully as early as Hartford Prolific." Its keeping qualities are superior.

Woodruff Red—This very large and handsome red grape is a seedling of Concord. Vine a very strong grower; free from disease and very hardy; bunch large, shouldered, berry very large and does not drop from the stem.

CLASS III—WHITE GRAPES.



NIAGARA

Duchess—Bunch large (often eight inches long) shouldered, compact; berries medium size, greenish-white; flesh tender, without pulp; flavor sprightly, rich and delicious. Ripens about with Concord. Vine a strong grower and very hardy.

Empire State—A purely native variety; remarkable strong grower; foliage resists mildew; extremely hardy, very productive; fruit ripens early, of best quality; hangs firmly to the stem; continues a long time on vine; remarkably good keeper.

Green Mountain—A very early and delicious grape; pulp tender and sweet, with but one or two seeds; bears young and profusely, and ripens from the 25th of August to the 1st of September. The only grape thus far tested that ranks first, both in earliness and quality.

Lady—Originated in Ohio. A seedling from Concord. Bunch and berry medium size, light greenish-yellow, covered with white bloom; flesh tender and sweet, lacking character. Vine hardy and productive.

Lady Washington—Vine very vigorous; berry medium to large, round; color deep yellow, with a tinge of delicate pink where exposed to the sun, and covered with thin, white bloom.

Martha—Native of Missouri. Bunches medium, shouldered; berry large, roundish; flesh similar to Concord; a little foxy, but very good; ripens earlier than Concord. Vine vigorous and hardy. Deservedly popular.

McKinley—A large **EARLY WHITE GRAPE**, as large as the Niagara and productive; strong grower, and robust foliage. It is a cross between Niagara and Moore's Early. It was originated near where the Niagara Grape originated. It is fully ten days earlier side by side. Bunches very large and compact, very sweet with no acid around the seeds and no puckery taste in the skin. It is the coming Early Grape for market.

Moore's Diamond—A vigorous grower, with dark, healthy foliage; entirely free from mildew. A prolific bearer; bunches large, handsome and compact, slightly shouldered; color delicate greenish-white, with rich yellow tinge when fully ripe. Skin smooth and free from specks; pulp tender, juicy and nearly transparent, with very few seeds; berry about the size of Concord. quality best; rich, sprightly and sweet. Ripens about two weeks before Concord.

Niagara—This white grape is justly regarded as one of the very best known; very fine quality for a table grape; very prolific, hardy and fine grower.

Pockington—Is a seedling from Concord; fruit a light golden-yellow, clear, juicy and sweet to the center, with little or no pulp; bunches very large, sometimes shouldered; berries round, very large and thickly set. First of September.

Prentiss—A pure native seedling. Vine vigorous and hardy; clusters of a good size, compact; berries medium to large;

flesh tender, sweet, with a pleasant aromatic flavor: Very productive, inclined to overbear. Ripens about with Concord.

Rebecca—A fine and delicious white grape; berry and bunch medium size. Vine a free, slender grower and abundant bearer; not quite hardy. Ripens almost as soon as the Delaware. We regard it as one of the highest flavored of our native grapes; recommended particularly for careful garden culture.

Rommel—Large, greenish-yellow, tender, melting, of fine quality; vigorous and hardy.

STRAWBERRIES



FIG. 1.

Planted too Deep.



FIG. 2.

Right way of Planting.



FIG. 3.

Planted too Shallow.

Strawberries may be successfully grown on any soil adapted for garden purposes, or where good crops of grain or potatoes can be raised. The ground should be well prepared, thoroughly enriched, and should be kept free from weeds.

In the Middle and Northern States the plants should be set during the months of April and May. Pot plants that will produce some berries in the season following the planting may be set in August or September, but these are necessarily expensive. Plants taken from the open ground in August or September are much more liable to injury in transit than those sent in the spring, and need careful shading and watering until established.

Three hundred bushels per acre is not an unusual crop. In our lists we indicate pistillate sorts with the letter P.

Bederwood—Fruit large, conical, bright red and of excellent quality. All things considered, this is one of the very best early varieties. Plant a good healthy grower.

Big Bob—Very large; deep red, sweet; best in rich, sandy land.

Brandywine—A new variety of Pennsylvania origin, very highly recommended; of immense size and fine quality; firm and shapely; large berry. Medium to late.

Bubach's No. 5—Very prolific, of excellent flavor, sweet sub-acid, and in size simply immense—berries averaging large—many over 2½ inches in diameter and 7 inches in circumference. Its equal has not been produced on this

continent.

Charles Downing—A general favorite, succeeding everywhere under all systems of culture. Medium to large; bright crimson; handsome; moderately firm and of superior quality. One of the best for home use.

Clyde—The Clyde is considered one of the best Strawberries of recent introduction. Ripens early; as large as Bubach, or larger; better quality and much finer. The plant is strong and healthy; foliage light green.

Crescent Seedling—(P)—Large, averaging larger than Wilson's Albany; conical; color a handsome bright scarlet; quality very good. In productiveness unequalled, having produced over 400 bushels per acre. Plants very strong



GANDY

and vigorous. A most valuable market sort.

Gandy—A very strong growing plant; moderately productive; fruit large, uniform shape, bright color, and good quality; season late. A cross between Jersey Queen and Glendale. Ripening two weeks after the Sharpless.

Glen Mary—(P)—A new variety especially recommended for vigor and productiveness of plants, size and beauty of berries and excellence of flavor. Medium to late.

Greenville—It leads for productiveness, market, home use, and general purposes; combines earliness, firmness, large size, good quality; very even and fine color, with wonderful vigor and health of plant; free from rust, and attains its greatest productiveness when planted near Bederwood.

Haverland—(P)—Large, healthy, vigorous-growing plant; very productive; fruit large, conical, with slight neck; uniform in size and shape; bright red; firm.

Jessie—Plant a strong; robust grower, similar to Sharpless. On most soils it

is a robust, healthy plant; long, stout fruit stalks hold the fruit well up from the ground. Berries of the larger size; medium to dark red color all the way through; firm and solid and of the most excellent quality; very few small berries and none of the larger ones of irregular shape.

Marshall—Season late. Berries deep blood red to center, flavor very much like the wild berry. Foliage large and vigorous. While it will not perhaps yield as many quarts to the acre as some medium sized berries, yet it is the best extra large berry. It makes comparatively few runners in hills to get largest berries.

McKinley—Well tested and proved to be a superb variety in every respect. Flesh firm, quality excellent. Plant vigorous, healthy and a wonderful yielder.

New Home—This berry is certainly very fine; a vigorous and thrifty grower; the berries large and even in size; an abundant producer. Should be planted by all berry growers, either for market or home use.



JESSIE

Parker Earle—A splendid berry; uniformly large, regular, conical with a short neck; color glossy scarlet-crimson; ripens all over; flesh moderately firm, no hollow core; quality good; flowers perfect; always setting perfect fruit. Plant very vigorous, healthy and remarkably productive.

Senator Dunlap—This berry is one of the best. Very productive, plants very strong and thrifty, producing immense quantities of large, fine, juicy fruit, which always sells at top market prices.

Sample—A new variety that has been tested and found satisfactory in every respect.

Sharpless—Very large; average specimen under good cultivation measuring $1\frac{1}{2}$

inches in diameter; generally oblong, narrowing to the apex, irregular, often flattening; clear light red, with a smooth, shining surface; firm, sweet, with a delicious aroma. Vigorous, hardy and very productive when raised in the hills with runners cut off.

Shuckless—This is the most remarkable strawberry ever introduced. In picking it parts readily from the stem, the shucks remaining on the stem instead of the berry, which makes it of great practical value for table use. Plant a strong grower, hardy, and a late bloomer; produces berries of uniform size and color.

Timbrell—The vine is a thrifty grower, with rank, dark foliage, after the nature of Parker Earle, and the berry is large, symmetrical, dark crimson color, which runs through the flesh. It is a good yielder of large, handsome berries, so firm they will stand long shipments in good condition. Ripens late.

Van Deman—Very early; an immense cropper; good canner. Quality will rank with the best.

Warfield No. 2—Berry dark red, conical in shape; flavor much like Wilson when ripe; sweet and rich; a vigorous grower, with long, penetrating roots to resist the drought; tall leaves to protect the blossoms from frost.

Wilson's Albany—Medium to large; dark red; very hardy, vigorous and productive. The most widely known and universally successful strawberry.

Wm. Belt—A splendid new sort and worthy of a trial.

RASPBERRIES

Coming immediately after Strawberries, when there is a dearth of other fresh fruit, Raspberries are equally desirable for planting in the garden for home use and in the field for market. They are easily cultivated. Beds seldom require renewing. Their season of ripening is long. The fruit bears transportation well, and aside from its demand for immediate consumption, it brings highly remunerative prices for drying and canning.

Plant in good soil and manure it from time to time freely. The hills should be not less than four feet apart each way, with two of the plants on a hill. Cut out the old and weak shoots each year, preserving not over six for fruiting. If the location is much exposed and the plants inclined to kill down seriously, they may be bent over in the fall on mounds of earth formed at one side of the hills and covered sufficiently to keep them down until spring. Surplus suckers take strength from the bearing plants. They should be cut away or hoed up frequently.

Raspberries may be made very profitable with good cultivation.

CLASS I—RED AND YELLOW VARIETIES

Brandywine—(Susqueco)—Large: bright red; very firm. Valuable for market on account of its fine shipping qualities.

Cardinal—A surprise in the fullness of

its merits—its great growth, extreme hardiness, and the exceeding productiveness of its choice red, rich, pure-flavored berries. It thrives where

others fail; it will pay; it is not a novelty, but a variety of great merit.

Caroline—A seedling from Brinkle's Orange, combining the peculiar melting and luscious flavor of that variety with canes of great vigor, entire hardiness and extreme productiveness. Color pale salmon; berries large and of fine quality.

Columbian—The greatest Raspberry of the age. It is a seedling of the Cuthbert, grown near the Gregg, and is believed to be a cross between the two. It is enormously productive; of large size and excellent quality. Season of fruiting from July 12th to August 15th. It has stood 28 degrees below zero without injury; is propagated from the tips, and does not

sucker. The color is dark red; adheres to the stem; does not crumble in picking, and is a splendid shipper. It has yielded over eight thousand quarts per acre.

Cuthbert—(The Queen of the Market)—Large, conical; deep rich crimson; firm, of excellent quality. A vigorous grower, entirely hardy and immensely productive. "I regard it as the best raspberry for general culture."—Charles Downing.

Golden Queen—This variety is a seedling of the Cuthbert, but the color of the fruit is a rich golden-yellow. The flavor is of the highest quality; in size equal to Cuthbert. Immensely productive; a very strong grower and hardy enough for entire northern latitudes, having stood uninjured even when the Cuthbert suffered.

Haymaker—The most vigorous grower of all raspberries. Very hardy. Fruit very large, conical; color bright red, and very attractive; flavor superb; delicious for table use and splendid for canning. It is a prodigious bearer, of long season; fruit of fine texture; does not drop from the bush. A superb shipper.

Hansell—Medium to large, color bright crimson; flesh firm, quality best. Canes vigorous, entirely hardy, and very productive. Very early.

Herbert—A Canadian seedling. Has been tested at N. Y. Exp. Station and by many large growers, all giving it very favorable reports. In hardiness, it easily takes first place. The cane is very strong and vigorous, leaves large and healthy, and has never been affected by Anthracnose, or disease of any kind. Fruit bright red, somewhat

oblong, the largest of all red raspberries. Flavor, very sweet and juicy,



COLUMBIAN

the very best for table use. Enormously productive, will bear twice the crop of either Cuthbert or Loudon, under the same conditions. Season, 5 to 6 days before Cuthbert. Holds its size well to end of season.

Japanese Wineberry—Strong grower and handsome; somewhat smaller than the red raspberries; sparkling and attractive, flavor rich, rather acid; excellent for jelly. Deep amber.

King—Large, crimson; firm; flavor very good; hardy. A new variety. An abundant and early bearer.

Loudon—Ripens with the earliest and hangs to the last. In productiveness it is beyond any red raspberry known, and is a famous shipping berry. It is as hardy as the Turner and is of superior quality.

Marlboro—The best early red raspberry for the North, ripening soon after the Hansell. Hardy and productive.

Miller's Red—Vigorous and sturdy in cane; very early. Fruit large and profuse; beautiful and brilliant in color; sweet, luscious flavor. Nothing in the way of red raspberries since the advent of the Cuthbert can be compared with the Miller in point of value.

Philadelphia—An old market sort of moderate size and fair quality; very hardy and productive. Still grown largely in some places.

Reliance—A seedling from Philadelphia, but much more valuable. Flesh firm, quality good; canes hardy and productive. A valuable sort.

Royal Church—Berry large, dark crimson, hardy, firm and of good quality. Flavor exceedingly delicious, aromatic and sprightly. Berries do not crumble in

picking, and have very few seeds.
Superlative—Large, conical, handsome; dull red; six good berries weigh an ounce; flavor very fine, par excellence;

a dessert kind. Canes stout, supporting themselves; a very heavy cropper. Hardy.

CLASS II—BLACK CAPS



CUMBERLAND

Cumberland—This new berry is a very valuable acquisition, with its greatly superior size it combines the equally valuable characteristics of great firmness, splendid quality and wonderful productiveness. The plants are entirely hardy, very vigorous and healthy, and seem entirely unaffected by either Anthracnose or "yellow blight." In season of ripening it follows Palmer and Souhegan, and precedes Gregg a short time, making it a mid-season variety.

Earhart—Strong, stock grower, with an abundance of stout, heavy spines; very hardy; fruit of large size, jet black and good quality, commencing to ripen early and continues till frost.

Gault Perpetual—Fruit immense size; commences to ripen with Gregg, continuing two or three weeks longer, when fruit on young canes commence to ripen, continuing till frost. Young canes frequently produce clusters of 80 to 100 perfect berries.

Gregg—Of good size, fine quality, very productive and hardy. It takes the same position among black caps as Cuthbert among the red sorts. No one can afford to be without it.

Johnston's Sweet—Smaller than the Gregg, of same color. A good strong grower, healthy and hardy, ripening with Tyler; stands up well in picking and handling.

Kansas—Canes are of strong growth, very hardy and prolific, with tough, healthy, clean foliage. Its season second early, ripening after Souhegan, but much earlier than Gregg. It is beyond question, a variety of great value.

Mammoth Cluster—The largest black cap except Gregg. Canes of strong growth and very prolific. Berries large and of fine quality.

Munger—Excels all others in size and productiveness—5 to 8 days later than Gregg.

Ohio—A very strong growing hardy sort; fruit nearly as large as Mammoth Cluster; more productive than any other variety, and one of the most if not the most valuable for market.

Souhegan—A new variety commended very highly as a market sort by those who have grown it. Said to be enormously productive, perfectly hardy and free from disease of any kind.

CURRENTS

Ripe just before Raspberries are gone, continuing in prime order for several weeks, there is no more useful fruit than the currant, and is among the easiest to cultivate.

Plant in rows four feet apart each way, if practicable. Light and air will do as much to enhance the value of currant bushes as with other plants. Keep the ground

mellow, free from weeds, and in a good state of fertility, and prune freely every spring. Should the currant worm appear, dust a little white hellebore powder from a small, coarse bag, over the bushes when the leaves are damp. In some instances it may be necessary to repeat this process, but the trouble and expense of exterminating the worms is trifling; if the powder is applied as soon as the worms appear.

Black Champion—Bushes large, and flavor of fruit particularly delicious. It hangs long on the bunches, and unlike other varieties, bears the severest pruning without detriment.

Black Naples—Very large; black, rich, tender, and excellent for jellies and wines; very productive.

Cherry—Very large, deep red, rather acid; bunches short. Plants erect, stout, vigorous and productive.

Crandall—Perfectly hardy, very strong grower; adapted to all soils, a profitable market variety, as it keeps a long time after being picked; very large, averaging three times as large as huckleberries; sells at highest prices. It is proof against the currant worm.

Fay's Prolific—Originated in Chautauqua County, N. Y. A cross between Cherry and Victoria; of large size, fine flavor and claimed to be five times as prolific as the Cherry. A great acquisition.

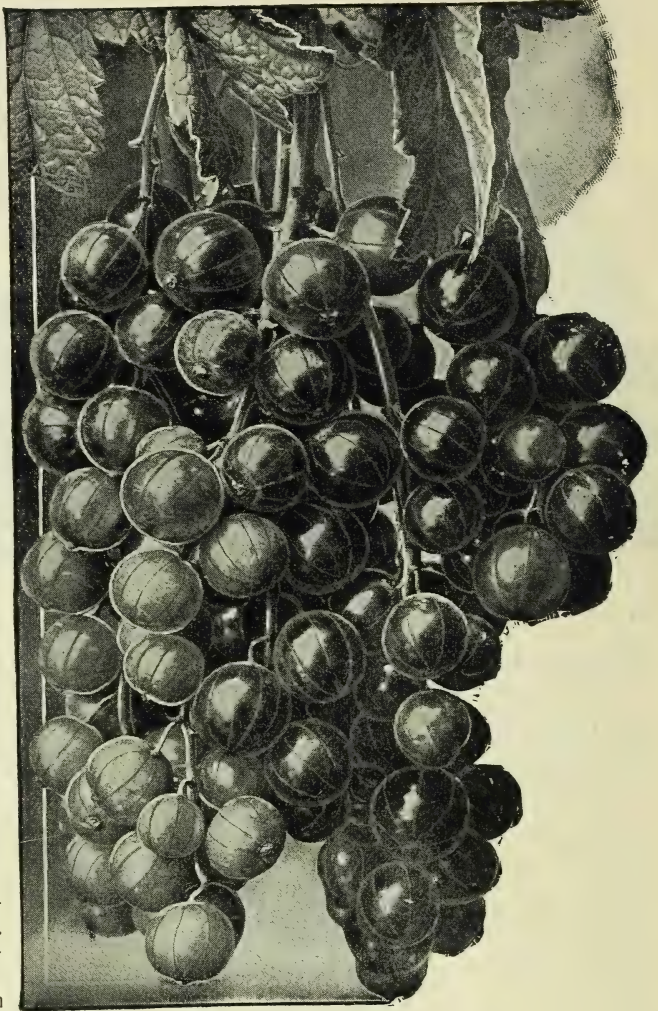
La Versaillaise—Very large, red; bunch long, of great beauty and excellent quality; one of the finest and best and should be in every collection. Very productive.

Lee's Prolific Black—A new English variety. The fruit is large and of superior quality; the bush is a vigorous grower and enormously productive, rendering it very profitable.

North Star—It is claimed for this variety that it is the best growing, the best flavored, and the most prolific red currant.

Pomona—A new red currant. One of the best.

Red Cross—A new red currant of large size and superior quality; exceedingly vigorous and productive, with long fruit stems.



PERFECTION

Perfection—Originated by Chas. G. Hooker, Rochester, N. Y. A cross between Fay's Prolific and White Grape. Color is a beautiful bright red. Size as large as the Fays or larger, the clusters averaging longer. It is the most productive large red currant of which we have any knowledge. Season of ripening is about the same as that of Cherry or Fay. Quality rich, mild, sub-acid, plenty of pulp with few seed. Less acid and of better quality than any other large red currant in cultivation. A good grower, with very large healthy foliage. Awarded the Barry, Fifty Dollar Gold Medal of the Western New York Horticultural Society, July, 1901, after three years trial. The first fruit to receive this grand prize. Received Highest Award given any new fruit at the Pan-American Exposition, also received prize at Louisiana Purchase Exposition, St. Louis, 1904.

Victoria—A splendid variety, ripening two or three weeks later than the others and continuing in fine condition for a long period. Bunches extremely long; berries of medium size, brilliant red and of the highest quality.

White Grape—Very large, yellowish-white, sweet or very mild acid; excellent quality and valuable for the table. The finest of the white sorts. Very distinct from White Dutch, having a low

spreading habit, and dark-green foliage. Very productive.

White Imperial—New and of great value; fruit larger and stems longer than White Grape; enormously productive; quality mild, delicious, sub-acid.

Wilder—Very large, light red; unequaled for table, canning or market; enormously productive; flavor delicious, mild acid.

GOOSEBERRIES

This fruit is useful for cooking, when green or ripe, and it may be canned with such facility that it is beginning to be cultivated very extensively for both home use and market.

It requires the same cultivation and treatment for worms as the currant. The worms attack the Gooseberry before the currant bushes, and if a few of the former are set near a currant plantation, and the worms exterminated on these, there will be little if any trouble from them on the currant bushes.

The American varieties, though not quite so large as the English sorts, are of fine quality and are not subject to mildew.

Champion—A new variety introduced from Oregon, where it originated; fruit large, round; an immense bearer, and entirely free from mildew. One of the best yet introduced.

Chautauqua—A new strong growing variety of the English type. Very promising. Fruit white, of the largest size and enormously productive. Its size, beauty, productiveness and good quality will make it very popular with intelligent and energetic fruit growers.

Columbus—A new American seedling Gooseberry of the English type. It is of large size, oval in form, skin greenish-yellow, smooth, of fine quality. Plant a strong, robust grower, with large spikes of thorns. Foliage large and glossy. Has never shown a trace of mildew. We confidently recommend it as one of the best of its class.

Downing—Originated at Newburgh, N. Y. Fruit much larger than Houghton; roundish, light green, with distinct veins; skin smooth; flesh soft, juicy and very fine flavored. Vigorous and productive. The most valuable American sort.

English Gooseberries—The varieties of English Gooseberries are almost innumerable. The fruit is generally large and handsome. The best sorts are Crown Bob and Industry (red), and Whitesmith (green), which in favorable localities do extremely well.

Golden Prolific—A remarkably strong, vigorous and upright grower, with dark-green glaucous foliage, which resists mildew perfectly, and persistently hangs on until the end of the season. The fruit is of the largest size, oblong, good, sample measuring $1\frac{3}{4}$ inches in

length. Color golden-yellow; flavor decidedly good; very productive.

Houghton's Seedling—A vigorous American sort, very productive, free from mildew. Fruit medium, roundish, smooth of a pale red color; tender, sweet and of a delicious flavor.

Industry—This is said to be the best English Gooseberry yet introduced. It is of vigorous, upright growth, a great cropper. The berries are of the largest size, dark red, hairy, rich and agreeable, of fine quality and excellent flavor. New and very desirable, as it is the largest grown. Size $1\frac{1}{4}$ to $2\frac{1}{2}$ inches.

Keepsake—Color white or light yellow. Quality as good or better than the Industry, and more productive than that variety.

Mountain Seedling—From Lebanon, N. Y. Very large, oval, brownish red, with long stalk; skin smooth, thick; flesh sweet; strong, but a rather straggling grower.

Pearl—Originated by Prof. William Saunders, of the Experimental Station, Ottawa, Canada. It has also been thoroughly tested at nearly all the Experimental Stations in the United States and reports are unanimous in its favor. It is a wonderful cropper, strong grower and free from mildew. Fruit third larger than Downing.

Red Jacket—(Josselyn)—This new American Gooseberry is as large as the largest English variety. Berry smooth; very prolific and hardy; quality and foliage the best.

Smith's Improved—From Vermont. Large oval, light green, with bloom; flesh moderately firm, sweet and good. Vigorous grower.



VICTORIA

Victoria—This new gooseberry is a wonder. It is the strongest grower the greatest cropper, and finest flavored of Red Gooseberries. It is superior to Industry in its growth, yielding larger

crops of its delicious high flavored fruit, which is superb in quality—and ripens ahead of Industry. We bespeak for its great success.

BLACKBERRIES

This excellent and profitable fruit should be planted for garden use in rows six feet apart, with plants four feet apart in the rows; for market, in rows eight feet apart, with plants three feet apart in the rows. Give the plants the same cultivation as Raspberries.

Agawam—Ripens earlier than other kinds, and has a flavor similar and equal to the wild berry. Perfectly hardy.

Ancient Briton—A new and valuable blackberry. Perfectly hardy and very productive. It ripens early and continues in fruiting a long time.

Blower—Originated in the celebrated small fruit belt of Chautauqua County, N. Y., where it has been thoroughly tested for several seasons. Claimed to be the hardiest, most productive, the finest quality and to bring on the market the highest price of all blackberries. Has produced 2694 berries on one bush, 2720 quarts on 1-3 acre. Large size, jet black, good shipper, best quality, unexcelled productiveness are the main characteristics of this splendid new sort.

Early Harvest—A variety of great promise, being exceedingly early in time of ripening and always reliable. The canes are strong and upright in growth,

branching stout and vigorously. Hardier than Kittatinny or Lawton; an enormous bearer. Berries sweet and of the highest quality, though not as large as some varieties.

Eldorado—This remarkable berry has been cultivated twelve years and under careful test at different experimental stations. It has never winter-killed or failed to produce a full crop of the finest fruit. Vine vigorous and hardy, enduring the winter of the far Northwest; berries sweet, melting, without any hard core, and keeping ten days after picking.

Erie—Very large and very hardy. A strong grower and great bearer, producing larger, sweeter berries, earlier in ripening, than any other sort.

Iceberg—This remarkable berry was originated by Luther Burbank. The fruit is not only white but so transparent that the seeds, which are unusually small, can be seen in the ripe berries.

The clusters are larger, and the berries sweeter and more tender and melting than those of the Lawton, its parent. Is quite up to the average in hardiness and productiveness. A great novelty.

Kittatinny—Large, black, sweet, soft when black. Very hardy; ripens up gradually like the Lawton. One of the best, except in Northern sections.

Lawton—(New Rochelle)—The well-known market variety.

Lucretia—(Dewberry)—One of the low-growing, trailing blackberries; in size and quality it equals any of the tall-growing sorts. Perfectly hardy, healthy and remarkably productive, with large, showy flowers. The fruit, which ripens early, is often one and one-half inches long, by one inch in diameter; soft, sweet and luscious throughout, with no hard core; ripe before late raspberries are gone. Should be mulched to keep berries from the ground. We highly recommend this variety.

Maxwell—It is as large or larger than Wilson's Early, and ripens as early as Early Harvest. Rich and luscious, melting in the mouth—no core whatever. The canes are exceedingly prolific, very low, stocky and strong, and free from rust, double blossom, and all other diseases.

Mercereau—Remarkable strong grower, upright, producing stout stocky canes. Claimed to be the hardiest blackberry, standing uninjured 20 degrees below zero without protection. An enormous producer of extra size berries which are brilliant black and retain their color under all conditions; extra quality; sweet, rich and melting, without core. Unsurpassed as a shipper and keeper. Its season is early to midsummer.

Minnewaska—This valuable new berry has the following good qualities: It is extremely hardy, wonderfully productive, of excellent quality, being without the hard core so often found in blackberries, is very early, and continues in fruiting until very late.

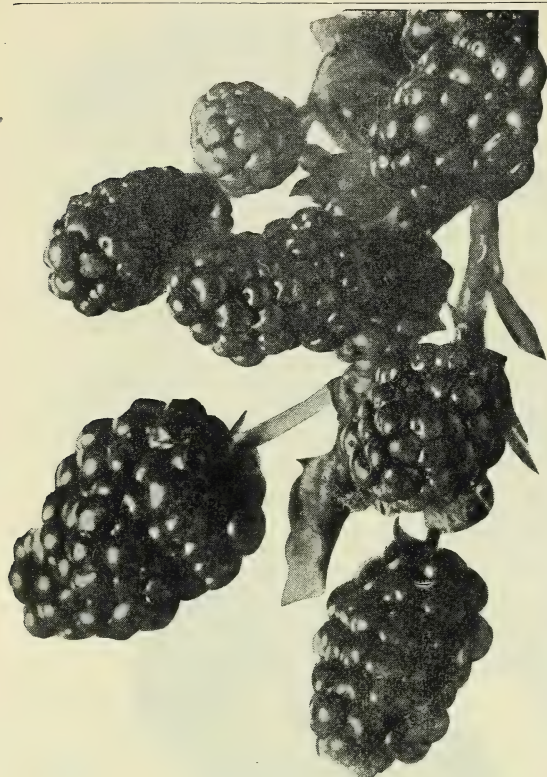
Rathbun—Origin Western New York. A strong erect grower with strong stem, branching freely; will root from tip of branches like a Raspberry. Hardy, having endured 20 degrees below zero and produced a good crop. Forms a neat compact bush 4 to 5 feet high, producing its immense fruit abundantly. Fruit is sweet and luscious without hard core, of extra high flavor, jet black, small seeds; firm enough to ship and handle well. Very large size, resembling the Wilson and fully equal to that grand variety, with the addition of hardiness.



RATHBUN

Snyder—Extremely hardy; enormously productive; medium size; no hard, sour core; half as many thorns as Lawton or Kittatinny, and they are nearly straight and short.

Taylor's Prolific—It is so extremely hardy as to have stood 30 degrees below zero unharmed. Berries large (nearly as large as Kittatinny) and of the highest quality. Canes of strong,



WARD

ASPARAGUS

This earliest and finest of spring vegetables is among the easiest cultivated and most profitable. A bed once planted suffers no deterioration for thirty years or more, if it is properly attended to and well manured.

• **Cultivation**—See that the ground is well drained, naturally or otherwise; work it up fine and deep, and make it very rich with well-rotted barnyard manure. Locate the plants eight inches apart in rows three feet apart. Spread out the roots in a trench made deep enough to permit their crowns to be covered with three or four inches of mellow earth. Give the bed liberal dressings of manure at intervals, and except near the seashore, three pounds of salt per square yard early every spring. Do not cut for use until the plants have grown two seasons.

Conover's Colossal—This variety is much superior in size and quality to any other, being remarkably tender and fine flavored.

Palmetto—Until recently we believed that Conover's Colossal was the best sort known, but we are now forced to concede that the Palmetto is earlier

spreading growth, and in productiveness it is simply remarkable, fully equaling in this respect the Snyder, which it nearly doubles in size. It ripens with Kittatinny.

Wachusett Thornless—Of fair size and excellent quality. Canes hardy, of strong, healthy growth. It is almost free from thorns, and fairly productive.

Ward—A New Jersey wonder. Undoubtedly a seedling of the Kittatinny, which it resembles, having all of its qualities and none of its defects. A healthy, strong grower with sturdy canes producing fine large fruit, black throughout, without core, and of excellent quality. Has never suffered from winter injury in New Jersey. An exceedingly prolific sort, the bushes being covered with its fine fruit, producing as many bushels per acre as the Wilson in its prime.

Wilson's Early—Large, sweet, fair flavored; very productive. Ripens up the fruit together, and is earlier than any other variety. Requires protection in some localities

and a better yielder, and more even and better in growth, and that it will eventually supersede the old favorite. The average bunches contain fifteen shoots, measuring $13\frac{1}{2}$ inches in circumference and weighing nearly two pounds. It has been tested both North and South, and has proved entirely successful in every instance.

RHUBARB, OR PIE PLANT

This deserves to be ranked among the best early products of the garden. It affords the earliest material for fine pies and fresh table sauce, continues long in use, and is valuable for canning. Make the ground rich and deep and thus secure a more tender growth.

Early Scarlet—Rather small, but early and good.

Myatt's Linnaeus—Large, early, tender and fine. The very best of all.

OLIVES

Picholine—Synonyms; Lechin, Coleasse, Piquette, Saurin, Plant d'Istres, Coias, early bearing. The tree is also less sub-Coiasse, etc. A variety much esteemed

in California for its rapid growth and less to damage by insects than most other varieties and ripens its fruit in 12 months, thus bearing a crop annual-

ly; makes excellent oil, and stands as the best for picking.

Olive have been cultivated on the Coast of Georgia and South Carolina for many years, and an excellent quality of oil has been produced. A peculiarity of the olive is that it flourishes and

bears abundant crops on rocky and barren soils where no other fruit trees are successful. Olive trees begin to bear fruit at from 8 to 10 years of age, but should not be planted farther North than this section, where they are sometimes injured by excessive cold.

MULBERRIES

Downing's Everbearing—The beauty of this as a lawn or street tree is quite enough to commend it; but in addition it yields an abundant supply of its large, refreshing berries for about three months. "I regard it as an indispensable addition to every fruit garden; and I speak what I think when I say I had rather have one tree of Downing's Everbearing Mulberry than a bed of Strawberries."—Henry Ward Beecher.

New American—A new variety, forming a very beautiful tree; very hardy and productive. Superior to Downing.

Russian—A very hardy, rapid-growing timber tree of great value, especially at the West. Introduced by the Mennonites. Foliage abundant; and said to be very desirable in the culture of silk worms. Fruit of good size and produced in great abundance.



DOWNING MULBERRY

NUTS

For Description See Ornamental Trees



ENGLISH WALNUT

American Sweet Chestnut.

Black Walnut.

Butternut.

English Walnut.

Spanish Chestnut.

Shell Bark Hickory.



SHELL BARK HICKORY

SCIONS AND STOCKS

We are prepared to furnish nurserymen and those about starting nurseries, with Scions and Stocks of the very best quality and at low rates.

ORANGE

Satsuma, or Oonshiu—A seedless variety of the Mandarin or Kid Glove class; of dwarf habit, and has withstood a cold of 20 degrees below freezing here.

Plants are all grafted upon Citrus Trifoliata, and may be said to be hardy in this latitude. Flowers are produced freely, but fruit does not set profusely.

POMEGRANATES

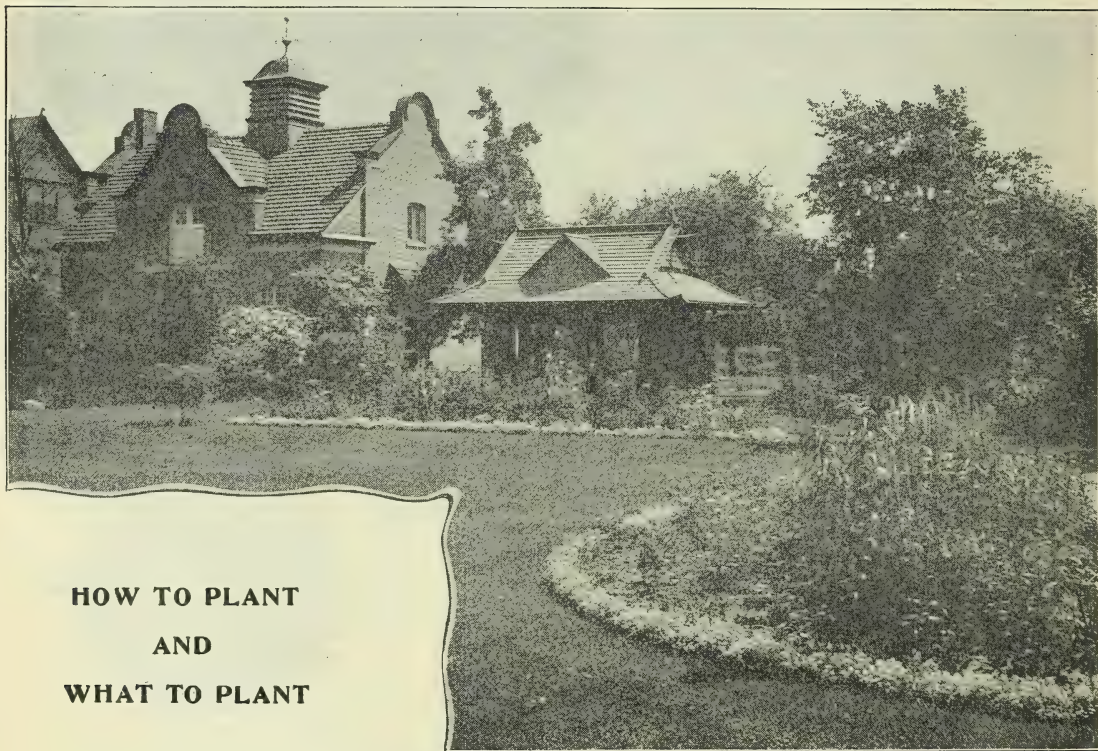
Purple Seeded or Spanish Ruby—Large yellow with crimson cheek; meat purplish-crimson, sweet and of best quality.

Sub-acid—Medium to large, dull red on yellow ground; meat sub-acid, and much esteemed in the preparation of cooling beverages.

...Ornamental Department...

While most people appreciate well arranged and well kept grounds, large or small, many fail to realize that they too can have equally fine grounds. We frequently observe a few roses growing in thick turf, with no attention given to pruning or cultivating. Under such circumstances good results cannot be expected.

Aside from the pleasure of having fine trees, shrubs, vines and flowers in the grounds surrounding a home, few realize how much these add to the commercial value of the place. A purchaser having to decide between a house with bare and unkept grounds and one surrounded by fine ornamentals, invariably chooses the latter at a marked advance in price, because he sees that he will at once enjoy what it would otherwise take some years to secure. Sagacious men are led by a knowledge of these facts to plant fine trees and shrubs about vacant lots they are intending to put upon the market. Lots thus planted readily secure purchasers at good prices when bare grounds go begging for buyers.



HOW TO PLANT AND WHAT TO PLANT

Do not make the mistake of planting at random all over the grounds. A fine, well cut lawn is one of the handsomest features of a place. Trees may be planted along a lane or avenue leading to the house, or dotted about the lawn on lines radiating from the house. This will secure light and air with good views from the house. Upright shrubs and roses should be planted in beds, each class by itself, about the borders of the grounds. These beds should be well cultivated and the plants annually pruned. When the growth of the plants has made them very thick, some should be taken out. It will not do to plant so little that years must elapse before a fine effect will be produced. A surplus should be planted at first and this gradually taken out. Vines should be planted near the house and allowed to climb upon and about it, or they may be trained on posts, arbors or stakes, placed in suitable location on the lawn.

A detailed list of desirable ornamental trees and shrubs would be little less than a recapitulation of our entire list; but as few have room for all, we here present a list of the most desirable in each class, and refer the reader to the proper places in the catalogue for descriptions of them.

Flowering Trees, May—White Dogwood, Magnolias in variety, Judas Tree, Horse Chestnuts, Double Flowering Cherry; **June**—White Fringe, Laburnum, Mountain Ash, Thorns in variety, Catalpa, Syringaefolia, Lindens in variety, Virgilia Lutea; **July**—American Sweet Chestnut.

Trees Valuable for their Form and Foliage—Cut-leaved Weeping Birch, Purple-leaved Birch, Kilmarnock Willow, Weeping Mountain Ash, Oak-leaved Mountain Ash, European Weeping Ash, Camperdown Weeping Elm, Purple-leaved Elm, European Linden, White-leaved Weeping Linden, Salisburea, Norway Maple, Wier's Cut-leaved Maple, Imperial Cut-leaved Alder, Purple-leaved Beech, Fern-leaved Beech.

Evergreen Trees—Norway Spruce, Austrian Pine, Scotch Pine, Siberian Arbor Vitae, Irish Juniper, American Arbor Vitae, etc.

Upright Flowering Shrubs—**April**—Daphne Mezereon; **May**—Forsythia, Japan Quince, Double Flowering Plum, Dwarf Double Flowering Almonds, Spiraea Prunifolia, Lilacs in variety. Tartarian Honeysuckle, Cornus Mascula Variegata; **June**—Deutzia Gracilis, Deutzia Crenata flore pleno, Viburnum Plicatum, Snowball, Wiegelia in variety, White Fringe, Syringa, Calycanthus (at intervals through summer), Red Dogwood, Herbaceous Paeonies, Spiraea Lanceolata, Tamarix Africana, Halesia, Japan Globe Flower; **July**—Spiraea Callosa Alba, Spiraea Callosa, Herbaceous Paeonies; **August and September**—Althaea in variety, Hydrangea Grandiflora.

Climbing and Trailing Shrubs—Clematis in variety (flower from June to November), Ampelopsis Veitchii, American Ivy, Climbing Honeysuckle in variety (flower all summer), Aristolochia Sypho (flower in May and June), Akebia Quinata, Wistaria.

Evergreen Shrubs—Rhododendron in variety, Mahonia, Dwarf Box.

Roses—Climbing and Moss, blooming in June; Hybrid Perpetual and Perpetual Moss, blooming at intervals all summer; and tender roses, blooming constantly.

UPRIGHT DECIDUOUS TREES



CATALPA BUNGEI

Alder—(Alnus).

IMPERIAL CUT LEAF—(Laciniata Imperialis)—A charming tree of stately graceful growth, having large and deeply cut foliage. Vigorous and hardy; one of the best lawn trees.

Apple—(Sorbus).

CHINESE DOUBLE FLOWERING—(Spectabilis)—Double white fragrant flowers in cluster. May.

Ash—(Fraxinus).

ACUBA-LEAVED—(Acubaeifolia)—A fine tree with variegated gold-blotched leaves, valuable for planting near purple trees.

EUROPEAN—(Excelsior)—A lofty tree of rapid growth, with spreading head, pinnate leaves and black buds.

EUROPEAN - FLOWERING—(Ornus)—Grows from 20 to 30 feet high; flowers greenish-white, fringe-like; produced early in June in large clusters at the ends of the twigs.

GOLD-BARKED—(Aurea)—A conspicuous tree at all times, especially in winter, on account of the yellow bark and twisted branches.

WILLOW-LEAVED—(Salicifolia)—A beautiful variety of fine form, rapid growth, having narrow, wavy leaves.

Beech (*Fagus*).

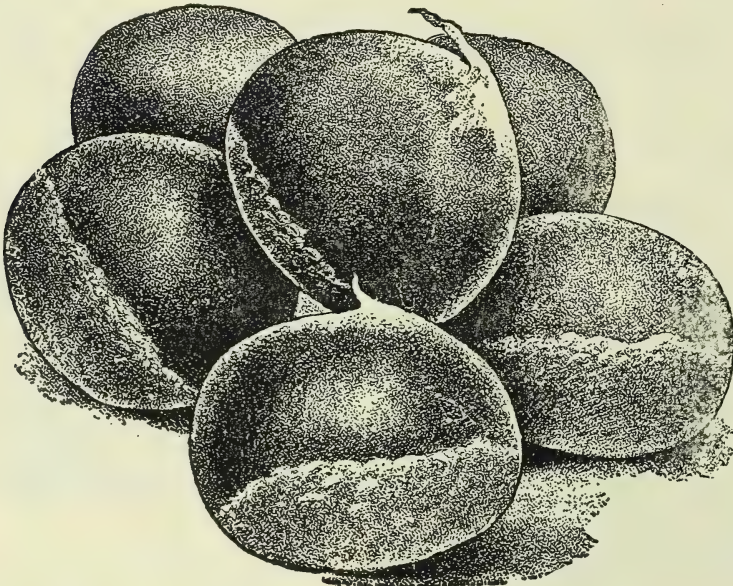
EUROPEAN—(*Sylvatica*)—A beautiful tree, growing to the height of 60 or 80 feet.

FERN-LEAVED—(*Heterophylla*)—An elegant tree of symmetrical habit, having beautifully cut foliage.

PURPLE-LEAVED—(*Purpurea*)—Discovered in a German forest. An elegant vigorous tree, growing 40 to 50 feet high. Foliage deep purple, changing to crimson. Like all varieties of the Beech, this is difficult to transplant, hence small trees three feet high are preferable.

Birch (*Betula*).

EUROPEAN WHITE—(*Alba*)—A fine tree of moderate size, with silvery bark and slender branches.



CHESTNUT, JAPAN OR GIANT

PURPLE-LEAVED—(*Folis Purpureis*)

A variety possessing the vigorous habits of the species, and having the rich purple foliage.

Catalpa.

BUNGEI—A species from China, of dwarf habit, growing only from 3 to 5 feet high. Foliage large and glossy. (See cut page 47.)

SPECIOSA—A variety originating in the West; more upright and symmetrical in its growth than the common Catalpa (*Syringaefolia*), and blossoms two or three weeks earlier. Very valuable for timber, fence posts, railroad ties, etc., possessing wonderful durability. A very ornamental and valuable tree.

SYRINGAEFOLIA—A native of the South. A rapid-growing, beautiful tree, with very large, heart-shaped leaves and pyramidal clusters of white and purple flowers a foot long. Late in July.

Cherry (*Cerasus*).

DWARF WHITE-FLOWERING—(*Humilis fl. pl.*)—A variety of the Morello, with double white flowers. Both this and the succeeding are very ornamental.

LARGE DOUBLE-FLOWERING—(*Flore alba pleno*)—A variety of the Heart Cherry, with pretty double flowers.

TEAS' JAPANESE HYBRID—It has large, luxuriant foliage, and large,

handsome white flowers. In rapidity of growth, it rivals the most luxuriant trees of temperate climates, while its hardiness has been demonstrated by its standing uninjured twenty-five degrees or more below zero.

Chestnut.

AMERICAN — A well-known forest and nut-bearing tree of great value for ornamental purposes.

SPANISH—A valuable species for both ornamental and fruit. It forms a hand-

some lawn tree and produces fruit three or four times as large as the American variety. Not hardy North of Philadelphia, Pa.

NUMBO—A New Jersey seedling of the Spanish Chestnut, and claimed to be as hardy as the American.

JAPAN—Tree medium sized and decidedly ornamental. It fruits when very young; nuts are much larger than the Spanish and equal to it in flavor. Believed to be a great acquisition. Not hardy North of Philadelphia, Pa.

Dogwood.

AMERICAN WHITE—(*Florida*) — A native tree of fine form and beautiful foliage, growing from 20 to 25 feet



AMERICAN ELM

high, producing white flowers three inches in diameter early in spring before the leaves appear. A very desirable tree.

RED FLOWERING—First disseminated by Thomas Meehan and considered a great acquisition.

Elm (*Ulmus*).

AMERICAN WHITE—(*Americana*)—The noble, spreading, drooping tree of our own woods. One of the grandest and hardiest of park or street trees.

ENGLISH—(*Campestres*)—An erect, lofty tree, with rather small leaves.

PURPLE—(*Stricta Purpurea*)—A beautiful variety; leaves of rich purple color when young.

SCOTCH or WYCH—(*Montana*)—A fine spreading tree of rapid growth, foliage large.

Horse Chestnut (*Aeculus*).

RED-FLOWERING—(*Rebicunda*)—Not so rapid or fine a grower as the white; foliage of a deep green and blooms later, with showy red flowers.

WHITE-FLOWERING—(*Hippocastanum*)—A very beautiful well-known tree, with round, dense head, dark-green foliage, and an abundance of showy flowers in early spring.

Horse Chestnut, Smooth-Fruited (*Pavia*).

OHIO BUCKEYE—(*Flava*)—Has pale green leaves and showy yellow flowers. A fine small tree. A very crooked and irregular grower.

SMALL BUCKEYE—(*Rubra*)—A small sized tree with dark red flowers; very crooked and irregular grower.

Judas Tree, or Red Bud (*Cercis*).

AMERICAN — (*Canadensis*) — A small growing tree, covered with delicate pink flowers before the leaves appear.

Laburnum (*Cytisus*).

GOLDEN CHAIN—Bears long, pendant racemes of yellow flowers in June, showy and beautiful. Should be in every lawn.

Larch (*Larix*).

EUROPEAN — (*Europaea*) — An excellent, rapid-growing pyramidal tree; also valuable for timber. Small branches drooping.

Linden (*Tilia*).

AMERICAN — (*Americana*) — A rapid-growing, beautiful native tree, with very large leaves and fragrant flowers.

EUROPEAN—(*Europaea*)—A very fine pyramidal tree, with large leaves and fragrant flowers. Only desirable on large grounds.

WHITE or SILVER-LEAVED—(*Argentea*)—A handsome, vigorous growing tree; large leaves.

whitish on the under side, and has a beautiful appearance when ruffled by the wind. One of the best.

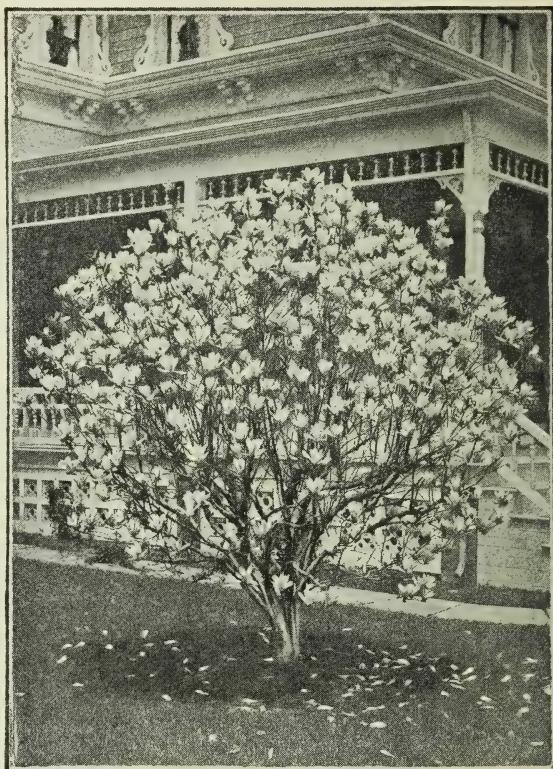
Magnolia—One of the most beautiful species of flowering trees. Being difficult to transplant, small trees three or four feet high are preferable.

ACUMINATA—(*Cucumber Tree*) — A beautiful pyramidal growing native species, growing to the height of sixty or seventy feet, with large glossy leaves; flowers yellow, tinted with bluish purple.

CONSPICUA—(*Chinese White*)—Tree of medium size and shrublike growth. Flowers are large, pure white, very numerous, and appear before the leaves.

LENNEI—(*Lennei's Magnolia*) — Recently introduced; foliage large; flowers dark purple, and although not a symmetrical grower, a superb variety.

SOULANGEANA — (*Soulange's Magnolia*)—A French Hybrid; a rather irregular grower; foliage large, glossy and massive; flowers very large, three to five inches in diameter, white and purple. Very effective.



MAGNOLIA

SPECIOSA—(*Showy Flowering Magnolia*)—A good grower; tree generally round-headed and of fine form; flowers a little smaller and of a lighter color than those of *Soulangeana*, but being produced in wonderful profusion, this is one of the best varieties.

Maple (*Acer*).

ASH-LEAVED—(*Negundo fraxinifolium*)—A fine, rapid-growing variety, with handsome, light-green pinnated foliage and spreading head. Very hardy.

BLOOD-LEAVED JAPAN—Of dwarf habit and rounded form; foliage five-lobed and serrated; reddish crimson in June. A charming variety and one of the best of the Japanese Maples.

JAPAN MAPLE—(*Acer Polymorphum*) — Growth slow and shrubby; foliage small, five-lobed and of a bright cheerful green in spring and summer, changing to a lovely dark crimson in autumn; perfectly hardy and one of the most beautiful and valuable of small sized trees.

NORWAY—(*Plantanoides*)—A native of Europe. Its large, compact habit, broad, deep green shining foliage, and its vigorous growth, renders it one of the most desirable species for streets, parks and lawns.



JAPAN MAPLE (ACER POLYMORPHUM)

WEIR'S CUT-LEAVED—(Weirii Laciniatum)—A Silver Maple with remarkable and beautiful dissected foliage. Of rapid growth; shoots slender and drooping, giving it a very graceful appearance. Should be in every collection. While it makes a large tree if undisturbed, it will

PURPLE-LEAVED SYCAMORE—(Purpurea)—A strong, rapid grower; foliage deep green on the upper surface and purplish-red underneath. Produces a fine effect with other trees.

SCARLET—(Rubrum)—A native variety of medium size, producing deep red blossoms before the leaves appear. In Autumn the leaves change to a brilliant scarlet, rendering the tree very effective.

SUGAR, or ROCK—(Saccharinum)—The well-known native variety, valuable both for the production of sugar and as an ornament in lining unpaved streets and avenues. A stately form and fine, rich foliage render it justly popular as a shade tree.

SCHWEDLER'S NORWAY—(Schwedlerii)—A beautiful variety, with the young shoots and leaves of a bright purplish and crimson color, which changes to purplish green in the older leaves. One of the most valuable trees of recent introduction.

SILVER-LEAVED—(A. dasycarpum)—One of the most ornamental of the species; the under surface of the leaves a soft white. It is exceedingly rapid in its growth, often making shoots six feet long in a season; valuable as a street tree.

bear any amount of pruning, and may be easily adapted to small lawns.

Mountain Ash (Sorbus).

EUROPEAN—(Aucuparia)—A fine hardy tree; head dense and regular; covered from July till winter with large clusters of bright red berries.

OAK-LEAVED—(Quercifolia)—A hardy tree of fine habit; height and breadth from 20 to 30 feet; foliage simple and deeply lobed. A very fine lawn tree.

Oak (Quercus).

PIN—The Pin Oak is undoubtedly the most valuable variety for all practical purposes. The foliage is dense, finely divided, of a beautiful shining green that colors to sparkling red and yellow in fall. The tree is easily transplanted and grows well on wet or dry ground; is, in fact, the quickest growing of all the Oaks. As an avenue and street tree it is unequaled, and it is one of the best for park planting.

Peach (Persica).

DOUBLE ROSE-FLOWERING—(Flore Rosea Pleno)—Flowers pale rose color, double; produced in great abundance and very handsome.

DOUBLE WHITE-FLOWERING—(Flore Alba Pleno)—Very ornamental; flowers pure white; hardy.



NORWAY MAPLE

Poplar (Populus).

BOLLEANA—(New)—Pyramidal form, leaves dark green on upper side, brilliant silver beneath. Very beautiful; 8 to 9 feet. and robust in growth; leaves

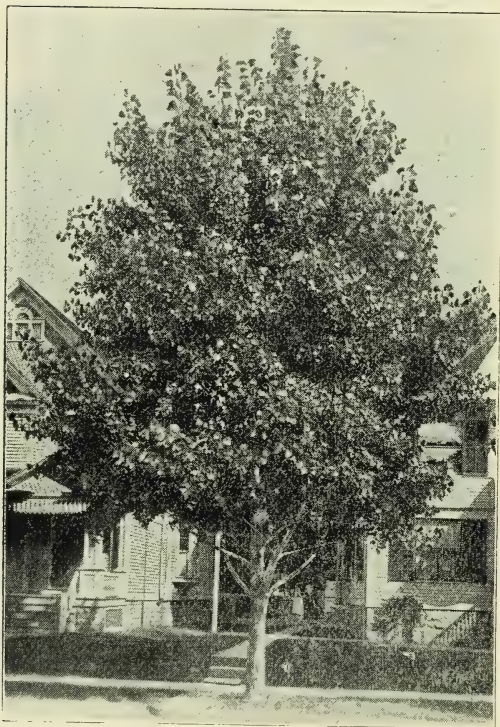
CAROLINA—Pyramidal in form large, pale to deep green.

LOMBARDY—(Fastigiata)—Well known for its erect, rapid growth and commanding form; very desirable in large grounds and along roads to break the average height and forms of other trees.

SILVER-LEAVED — (Alba) — A tree of wonderful rapid growth and spreading habit; leaves large, dark rich green above and white as snow beneath.

Salisburia.

MAIDEN HAIR TREE—(Adiantifolia)—One of the most beautiful of lawn trees. A native of Japan. Of medium size, rapid growth and rich, glossy, fern-like foliage. Rare and elegant.



CAROLINA POPLAR



ORIENTAL SYCAMORE

Sycamore.**ORIENTAL or PLANE TREE—**

As an ornamental tree for large grounds, or as a shade tree for street planting, this has no superior. A rapid grower, attains a large size, and is very graceful. Foliage heavy, and not subject to the ravages of insects. Especially valuable for city planting, as it is not affected by smoke or gas.

Thorn (Crataegus).

DOUBLE-SCARLET—(Coccinea fl. pl.)—Flowers deep crimson with scarlet shade; very double and considered larger than the double red; fine rich foliage.

DOUBLE-WHITE—(Alba flore pl.)—Has small double white flowers.

PAUL'S DOUBLE SCARLET—(Coccinea fl. pl. Paulii)—Flowers large, deep carmine scarlet. Superior to any other variety.

Tulip Tree (Liriodendron).

TULIPIFERA—A magnificent native tree with broad, glossy, fiddle-shaped leaves and beautiful tulip-like flowers; allied to

the Magnolias, and like them, difficult to transplant unless of small size.

Texas Umbrella—A very rapid growing and spreading tree; has light colored, fern-like foliage. Not hardy in the Northern or Middle States.

Walnut (*Juglans*).

BLACK WALNUT—(*J. Nigra*)—A native species of large size and majestic form; foliage beautiful, being composed of from thirteen to seventeen leaflets.

JAPAN WALNUT—Japan Walnuts are found growing wild in the mountains of Northern Japan, and the tree is, without doubt, as hardy as an oak. The nuts which are produced in extreme abundance, grow in clusters of 15 to 20, and have shells thicker than the Persian Walnut, but not so thick as the Black Walnut. The meat is sweet, of the very best quality, with flavor like that of the butternut, but less oily and much superior. The trees grow with great vigor, assuming a very

handsome form; need no pruning, mature early, bear young, and are more regularly productive than the Persian Walnut. Having an abundance of fibrous roots the Japanese Walnut transplants as safely as the apple.

BUTTERNUT or WHITE WALNUT—(*J. Cinera*)—A native tree of medium size, spreading head and grayish-colored bark.

ENGLISH, or MADERIA NUT—(*J. Regia*)—A handsome tree which produces fine fruit. Should be more extensively planted as it is quite hardy.

Willow (*Salix*).

ROSEMARY-LEAVED — (*Rosmarinifolia*)—Budded five to seven feet from the ground, it makes a very handsome, round-headed small tree; branches feathery, foliage silvery.

Yellow Wood (*Virgilia Lutea*).

One of the finest of American trees, resembling the Robinias, with long racemes of white, sweet-scented flowers in June.

WEeping DECIDUOUS TREES

Much attention is now given to this class of trees, and we place them separately for the convenience of our patrons. The superior grace and beauty of the weeping varieties render them especially adapted to yard, lawn or cemetery. No collection is complete without them; among ornamentals they have no superior.

Ash (*Fraxinus*).

EUROPEAN WEEPING — (*Excelsior Pendula*)—The common well-known sort; one of the finest lawn and arbor trees, covering a great space and growing rapidly.

GOLDEN BARK WEEPING—(*Aurea Pendula*)—An elegant variety; bark in winter as yellow as gold.

Beech (*Fagus*).

WEEPING—(*Pendula*)—A native of Belgium. A fine, vigorous and beautiful tree, attaining a large size; though ungainly in appearance when divested of its leaves, it is extremely graceful and effective when covered with its rich, luxuriant foliage.

Birch (*Betula*).

CUT-LEAVED WEEPING—(*Pendula Laciniata*)—Extremely vigorous and hardy. Mr. Scott, in his "Suburban Home Ground," says of it: "No engraving can do it justice; like the

palm tree of the tropics, it must be seen in motion, swaying in the lightest breeze, its leaves trembling in the heated summer air, its white bark glistening through the bright foliage and sparkling in the sun, to enable us to form a true impression of its character."

ELEGANT WEEPING — (*Elegans*) —

First exhibited at the Paris Exposition in 1879, where it attracted great attention. It has beautiful foliage and an elegant weeping habit. It is very desirable in grounds that admit variety.

YOUNG'S WEEPING — (*Youngii*) —

Originated near Milfred, Eng., where it was found trailing on the ground. Grafted into stems at some height, it forms pendulous heads, drooping to the ground in fine thread-like shoots; very beautiful.

Cherry (*Cerasus*).:
EVER-FLOWERING WEEPING
 (*Semperflorens*)
 —A very fine
 drooping variety with beautiful globular head that bears flowers and fruit all summer.

Elm (*Ulmus*).

CAMPERDOWN WEEPING — A vigorous grower and forms one of the most picturesque drooping trees. Leaves large, dark-green and glossy, and cover the tree with a luxurious mass of verdure; very desirable.



CAMPERDOWN WEEPING ELM

SCOTCH WEEPING—(*Montana Pendula*)—A vigorous growing tree with graceful drooping branches; very distinct.

Linden, or Lime Tree (*Tilia*).

WHITE-LEAVED WEEPING—(*Alba Pendula*)—A fine tree with large leaves and drooping branches.

Mountain Ash (*Sorbus*).

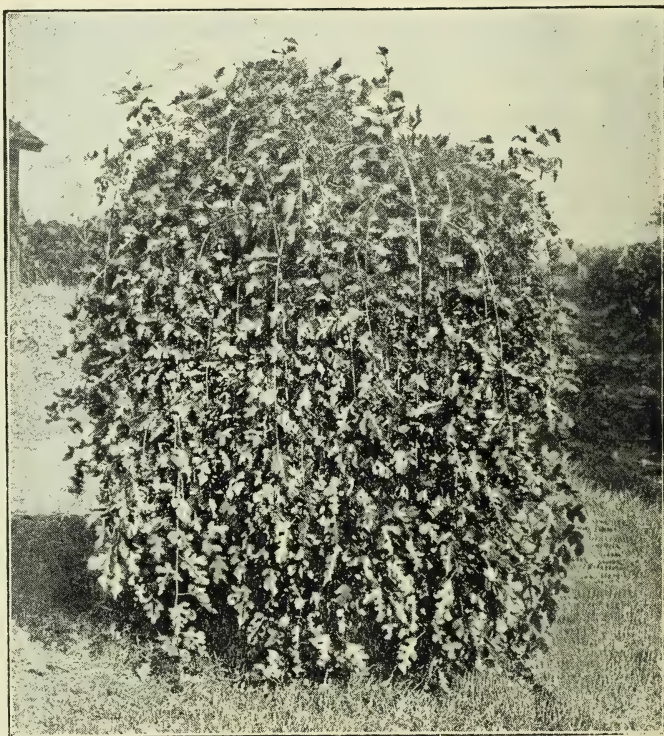
WEEPING—(*Aucuparia Pendula*)—A beautiful tree, with straggling, weeping branches; makes a fine tree for the lawn; suitable for covering arbors.

Teas' Weeping Russian Mulberry.

A weeping variety of the now well-known Russian Mulberry; perfectly hardy in summer and winter; withstands extreme heat and cold, and grows naturally in a very graceful form.

Poplar (*Populus*).

LARGE-LEAVED WEEPING—(*Grandidenta Pendula*)—A variety having when grafted standard high, long slender branches, like cords, which droops very gracefully; foliage large, dark shining green, and deeply serrated. One of the finest weeping trees in cultivation.



TEA'S WEEPING MULBERRY

Willow (Salix).

AMERICAN WEEPING — (*Purpurea Pendula*)—An American dwarf, slender-branched species; grafted five or six feet high, it makes one of the most ornamental of small weeping trees; more hardy than the *Babylonica*.

BABYLONICA WEEPING—The well-known common weeping willow.

KILMARNOCK WEEPING—(*Caerea Pendula*)—An exceedingly graceful tree with large, glossy leaves; very hardy.

WISCONSIN WEEPING—Of drooping habit and hardier than *Babylonica*. Valuable on account of its ability to resist severe cold.



BABYLONICA WEEPING WILLOW

EVERGREEN TREES

Evergreens are very desirable, but they are difficult to transplant, and both the time and manner of transplanting should be looked to. They should never be set in the fall after the growth of other trees has ceased. They may be set in August, or after they have started in May, but they should be subjected to as little exposure as possible and be set with great care.

Arbor Vitae (Thuja).

AMERICAN—(*Occidentalis*)—This is one of the very finest evergreens for hedges. It is very hardy, and if set at the proper time, with care and without due exposure, it may be relied upon to live, but small plants 12 to 18 inches high, which have been transplanted several times, are preferable. It bears shearing better than any other variety and may be made a very beautiful and dense hedge or screen to divide grounds, or for any purpose where it is not required to resist cattle or other animals.

COMPACTA—A dwarf, compact variety, with a conical head; of bright green color; perfectly hardy. A native of Japan.

PYRAMIDALIS—(New)—Of upright, compact habit, similar to the Irish Juniper. Very desirable.

SIBERIAN—(*Siberica*)—One of the best of the genus of this country; exceedingly hardy, keeping color well in winter; growth compact and pyramidal; makes an elegant lawn tree.

TOM THUMB—Similar to the Heath-Leaved, but more desirable; remarkable for slow, compact growth; valuable for planting in cemeteries and small places where large trees are not admissible.

Cedar, Red.

J. VIRGINIANA—A well-known American tree, with deep green foliage; makes a fine ornamental hedge plant.

Fir.

BALSAM or SILVER—Leaves dark green above, silvery beneath, retaining their color during the severest winter; grows rapidly and is very hardy.

CONCOLOR—The Concolor is the Queen of Firs, clothed in robes of ermine and emerald. Its delicate, feathery foliage and handsome shades of coloring render this one of the most beautiful lawn trees.

Juniper (Juniperus).

AMERICAN UPRIGHT—A remarkable pretty little tree, with dense upright growth and handsome, fastigiate form. The ends of the young shoots have a recurving habit, which renders the foliage quite graceful.

IRISH—(*Hibernica*)—Very erect and tapering in its growth, forming a column of deep green foliage; a pretty little tree or shrub, and for its beauty and hardiness is a general favorite.

SCALEY-LEAVED—(*Squamata*)—A very striking, hardy variety, spreading widely upon the ground and forming a very handsome evergreen bed.

SAVIN—(*Sabina*)—A low spreading tree, with handsome, dark green foliage; very hardy, and suitable for lawns and cemeteries; can be pruned to any desired shape and made very ornamental.

SWEDISH—(*Suecica*)—Similar to the Irish, though not so erect, with yellowish-green foliage of somewhat lighter color than the preceding,



PYRAMIDAL ARBOR VITÆ

forming a beautiful pyramidal small tree.

Pine (Pinus).

AUSTRIAN or BLACK—(*Austriaca*)

—A remarkably robust, hardy spreading tree; leaves long, stiff and dark green; growth rapid; valuable for this country.

MUGHO (Dwarf)—Very distinct, leaves short, stiff, a little twisted and thickly distributed over the branches; does not grow tall, but spreads over the ground, generally assuming a globular form; very dense.

SCOTCH—(*Sylvestris*)—A fine, robust, rapid-growing tree, with stout, erect shoots and silver-green foliage.

WHITE—(*Strobus*)—The most ornamental of all our native pines; foliage light, delicate or silvery green; flourishes in the poorest soils.

Retinospora.

RETINOSPORA PLUMOSA—An exceedingly handsome small evergreen from Japan, with a feathery, light green foliage.

RETINOSPORA PLUMOSA AUREA—Like the preceding, a plant of great beauty; foliage soft plume-like, of a golden yellow color; close and compact habit; should be in every amateur collection.

RETINOSPORA OBTUSA NANA—One of the finest of the family in showy arrangement of foliage, dwarf, dense, slow-growing habit, and depth of color.

RETINOSPORA OBTUSA NANA AUREA—A beautiful golden form of above, foliage full rich yellow, the deepest shade of all golden evergreens.

RETINOSPORA ARGENTEA—The bright green foliage is silver tipped and mottled with creamy white.

RETINOSPORA SQUARROSA—Dense growth; soft beautiful silvery blue foliage, arranged in spirals.

RETINOSPORA GRACILIS AUREA—A graceful small tree, the fern like young shoots of a light golden color.

Spruce (Abies).

COLORADO BLUE—(*Picea Pungens*)—A rare, elegant tree with foliage of a rich blue. One of the most distinct and striking of all the spruce family.

A free grower and perfectly hardy.

HEMLOCK or WEEPING—(*Canadensis*)—An elegant, pyramidal tree, with drooping branches and delicate dark foliage like that of the Yew; distinct from all other trees. It is a beautiful lawn tree, and makes a highly ornamental hedge.

NORWAY—(Excelsa)
—A lofty, elegant, tree of perfect pyramidal habit, remarkably elegant and rich, and as it gets age, has fine, graceful pendulous branches; it is exceedingly picturesque and beautiful. Very popular, and deservedly so, and should be largely planted. One of the best evergreens for hedges.



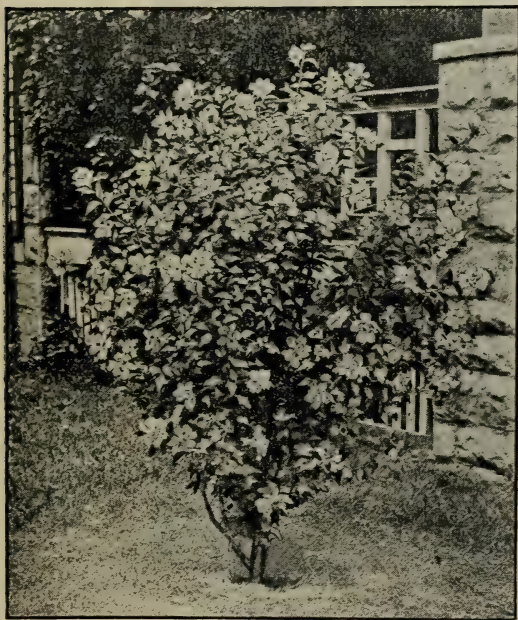
NORWAY SPRUCE

PYGMAEA—A dwarf variety of the Norway; grows from three to four feet high; very compact.

Yew (Taxis).

ERECT ENGLISH—A very fine pyramidal variety of the English Yew, with dark green foliage; hardy and desirable. Much used for hedges.

UPRIGHT DECIDUOUS SHRUBS



ALTHÆA

Althæa, or Rose of Sharon (Hibiscus).

The Althæas are fine, free-growing flowering shrubs of very easy cultivation. Desirable on account of flowering in August and September, when nearly every other tree or shrub is out of bloom.

DOUBLE RED—(Rubra flore pleno).

DOUBLE PURPLE—(Purpurea flore pleno).

DOUBLE WHITE—(Alba flore pleno).

SINGLE RED—(Rubrum).

SINGLE PURPLE—(Purpurea).

SINGLE WHITE—(Alba).

VARIEGATED-LEAVED DOUBLE FLOWERING—(Flore pleno fol variegata)—A conspicuous variety, with foliage finely marked with light yellow. Flowers double purple. One of

the finest variegated-leaved shrubs.

Aralia.

SPINOSA—Imported from Europe. A very wonderful large shrub, or small tree, which resembles the Palm. It has dark green fern-like foliage of enormous size and bears long panicles of white flowers in August. It has been thoroughly tested and found perfectly hardy. Invaluable, as it gives a tropical appearance to the lawn.

JAPONICA—Of same family as above, but of Japanese origin. Very promising.

Azalea.

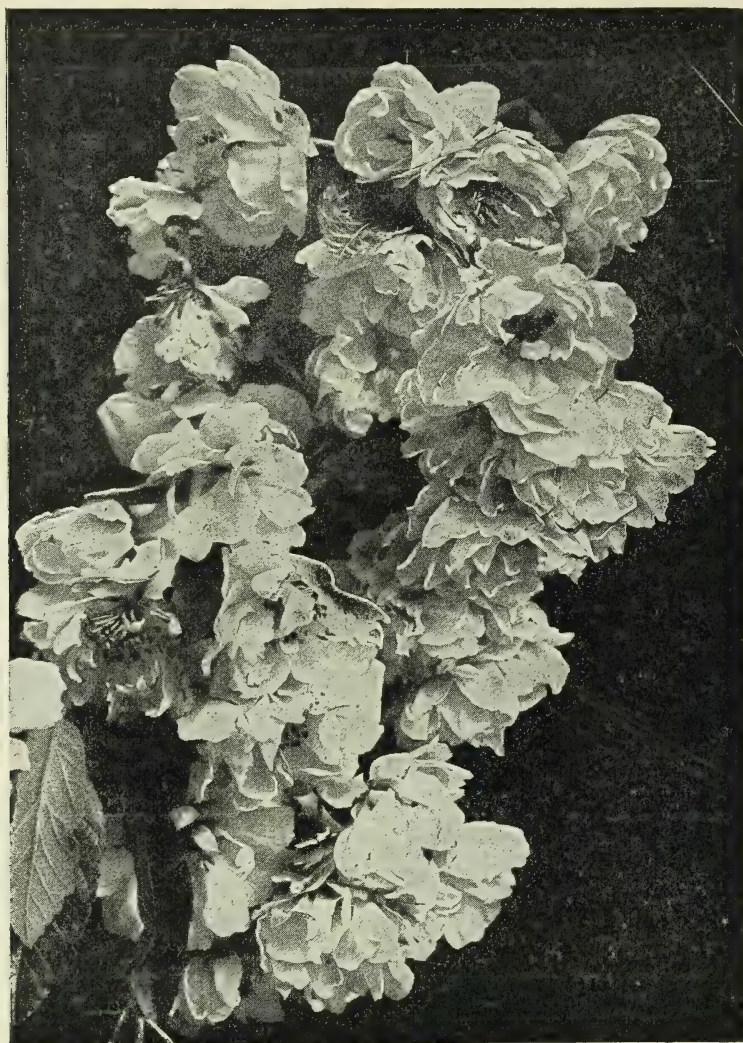
JAPANESE—This class has larger flowers and blooms earlier in the season than the Ghent varieties. The colors are chiefly red and yellow and shades of the same. They should be planted in partial shade.

PONTICA or GHENT—Natives of Asia Minor. Grow from 3 to 4 feet high. The Ghent Hybrids which we offer, combine nearly all colors and possess a delightful perfume. They rank next to the Rhododendrons for decoration of lawns and pleasure grounds. Bloom through May and June. They must receive slight protection in the winter and should be planted where there is partial shade and on loose, peaty soil, where there is abundance of moisture. In the latitude of Philadelphia they are perfectly hardy.

Almond (Prunus).

DOUBLE ROSE FLOWERING—(Japonica rubra fl. pl.)—A beautiful small shrub bearing in May, before the leaves appear; small, double rose-like flowers closely set upon the twigs.

DOUBLE WHITE FLOWERING—(Japonica alba fl. pl.)—Produces beautiful white flowers in May.



BRANCH OF BECHTEL'S DOUBLE-FLOWERING CRAB

Barberry (*Berberis*).

PURPLE-LEAVED — (*Purpurea*)— A very handsome shrub, growing from three to four feet high, with violet purple leaves and fruit. Makes a fine ornamental hedge.

EUROPEAN—(*Vulgaris*)—A fine shrub with yellow flowers in drooping racemes produced in May or June, followed with orange-scarlet fruit.

THUNBERGII—A native of Japan. A pretty species, of dwarf habit, small foliage, changing to a beautiful coppery-red in autumn. Valuable as an ornamental hedge.

Calycanthus, or Sweet-Scented Shrub (*Calycanthe*).

The wood is fragrant, foliage rich, flowers of rare chocolate color, having a

peculiarly agreeable odor. Flowers in June and at intervals afterward.

Clethra.

ALNIFOLIA—(*White Alder*)—A native shrub of low and dense growth; leaves abundant and light green; has numerous spikes of small, white fragrant flowers. Bloom abundantly in July.

Crab.

BECHTEL'S DOUBLE-FLOWERING AMERICAN CRAB—(*Pyrus Augustifolia*)—A medium-sized, hardy ornamental tree of great beauty. When in bloom this tree presents the appearance of being covered with roses, scenting the atmosphere for a long distance with a perfume equal to that of any rose. Unlike many other

trees, it does not bloom until the leaves are fully developed, which adds greatly to its beauty. See cut—

Currant (Ribes).

CRIMSON FLOWERING—Produces an abundance of crimson flowers in early spring.

YELLOW FLOWERING—A native species with yellow flowers.

Daisy.

SHASTA—Probably no hardy plant has been so highly spoken of in American Horticultural Press as this production of Luther Burbank, the result of crossing our native field Daisy with some of the choicer European varieties, and bearing beautiful clear, glistening white flowers, and bloom continuously from early summer until late fall; perfectly hardy without protection, even in the most exposed location.

Daphne.

COMMON MEZEREON—A native of Northern Europe. Small, branches erect, with clusters of pink flowers in March. The earliest flowering shrub we have.

WHITE—(Alba)—A variety with white flowers.

Deutzia.

This valuable species of plants comes to us from Japan. Their hardiness, luxuriant foliage and profusion of attractive flowers, render them deservedly among the most popular of flowering shrubs. The flowers are produced in June in racemes four to six inches long.

LEMOINEI—A hybrid obtained by Mons. Lemoine, of France, by crossing the well-known *Deutzia Gracilis* with *Deutzia Parviflora*. Flowers pure white, borne on stout branches which are of upright growth. Habit dwarf and free-flowering. A decided acquisition.

CRENATA—(Double-flowering, flore pleno)—Flowers double white, tinged with rose. One of the most desirable flowering shrubs in cultivation.

GRACILIS—(Slender Branched)—A charming variety introduced by Dr. Siebold. Flowers pure white and so delicate that they are very desirable for decorative purposes.

PRIDE OF ROCHESTER—A new variety raised from *Deutzia Crenata*, and exceeding all others in size of flowers, length of panicle, profuseness of bloom and vigorous habit; a charming acquisition to the list of *Deutzias*.

SCABRA—(Rough-Leaved)—An exceedingly profuse white flowering shrub.

Dogwood (Cornus).

RED BRANCHED—(Sanguinea)—A native species, very conspicuous and ornamental in the winter, when the bark is a blood red.

VARIEGATED CORNELIAN CHERRY—(*Cornus mascula Variegata*)—A small tree or shrub producing clusters of bright yellow flowers early in spring before the leaves appear. Has beautiful foliage, variegated with white. Decidedly the prettiest variegated shrub in cultivation.



CORNUS-ELEGANTISSIMA VAR.

ELEGANTISSIMA VARIEGATA—An improvement on the preceding, and one of the finest variegated shrubs; of rapid growth, foliage beautifully marked with creamy white and tinged with red, while some leaves are entirely white; should be in every collection.

Elder (Sambucus).

A well-known shrub, which blossoms in spring and afterward is covered with handsome berries; there are several varieties.

GOLDEN—(S. Aurea)—

A beautiful variety with light yellow leaves, which hold their color well and render the plant very conspicuous and effective.

Euonymus—(Burning Bush or strawberry tree)—

A very ornamental and showy bush, whose chief beauty consist in its brilliant berries, which hang in clusters from the branches until mid-winter; berries rose-colored; planted with a background of Evergreens the effect of contrast is very fine.

Elaeagnus Longipes.

A well-known shrub of spreading habit, dark green foliage, silvery-white beneath, with yellow flowers and bright red fruit that is beautiful as an ornament on the bush and is esteemed very highly by many for use in place of cranberries. Within the last few years there have been

many thousand plants imported from Europe, the demand having far exceeded the supply of American nurserymen.

Filbert.

PURPLE-LEAVED—(Corylus avellana atropurpurea)—A vigorous shrub, with large, deep purple leaves; very ornamental; produces good fruit.

Forsythia, or Golden Bell (Forsythie Viridissima).

A very singular and quite ornamental shrub. Its branches in the early spring before the leaves appear, are covered with bright golden yellow pendulous flowers.

Fringe.

PURPLE or SMOKE TREE—A very elegant and ornamental large shrub, with curious, hair-like flowers, which, being a pinkish brown color, give it the names, "Purple Fringe" and

**PURPLE FRINGE**

"Smoke Tree." The blossoms are in July, sometimes literally covering the tree and remaining all summer.

WHITE—(Chinonanthus Virginica)—An entirely different plant from the preceding; has handsome, large foliage and racemes of delicate white flowers that hang like finely-cut shreds or fringes of white paper.

Globe Flower (Kerria Japonica).

A slender green-branched shrub, five or six feet high, with globular yellow flowers from July to October.

Golden Glow Flower, Summer Chrysanthemum—(Rudbeckia Laciniata).

A hardy perennial plant, growing eight feet high, branching freely and bearing by the hundreds, on long graceful stems, exquisite double blossoms of the brightest golden color and as large as the Cactus Dahlia.

Halesia (Snow Drop Tree).

SILVER BELL—A beautiful large shrub, with handsome white bell-shaped flowers in May. Very desirable.

Honeysuckle (Lonicera).

RED TARTARIAN—A beautiful shrub; vigorous and producing large bright-red flowers striped with white, in June.

WHITE TARTARIAN—A large shrub having white flowers, in May and June.

Hydrangea.

ARBORESCENS STERILIS (Hills of Snow)—This superb new Hydrangea is a variety of the hardy native species *H. arborescens*, commonly found "wild" in most of the states east of the Mississippi river. The *sterilis* is likewise absolutely hardy and is, moreover, of easy culture and is an exceedingly prolific bloomer. A five year old plant has produced one hundred and twenty-six perfect blooms at one time.



HYDRANGEA ARBORESCENS STERILIS

FRAGRANTISSIMA—Almost an evergreen; a hardy, vigorous bushy-growing shrub, reaching a height of five or six feet; flowers bright-red and exquisitely fragrant; foliage dark rich green, which is retained in all its beauty until spring, when flowers and new foliage appears. A great acquisition.

Hop Tree, or Shubby Trefoil (Ptelea).

A large shrub, or small tree, of rapid growth and robust habit. Fruit winged and in clusters. Flowers in June.

OTAKSA—Foliage a beautiful deep-green. Produces immense clusters of rose-colored flowers in profusion, in July. Should be planted in tubs and protected in winter.

PANICULATA GRANDIFLORA—A fine, hardy shrub, growing to the height of eight or ten feet; flower white, in great pyramidal panicles a foot long, produced in August or September, when most other shrubs are out of bloom.

RED-BRANCHED—The highest authorities pronounce it the grandest

plant for the house or verandas that has ever been introduced. The wood is distinct red and the flowers pink, of great beauty and immense size.

THOMAS HOGG—A half-hardy variety of great beauty; flowers pure white, produced from July to September. Requires some winter protection.

TREE FORM HYDRANGEA—The *Hydrangea Paniculata Grandiflora* is one of the very finest of hardy shrubs, but when grown in standard or tree shape it is especially showy and striking. It forms a graceful and dwarfish tree, not reaching more than eight to ten feet in height, and is extremely effective for lawn decorations, whether standing singly or in masses. The immense trusses of bloom appear at just the time when other flowers are scarce, and last from the first of August until frost comes. It is entirely hardy and very easy to grow.

Japan Maple.

Very beautiful and very expensive.

BLOOD-LEAVED—A bushy shrub with deep cut leaves. The young growth is of a very brilliant crimson. One of the best.

GOLDEN-LEAVED—A beautiful variety. Foliage richly shaded with gold and green.

RED-LEAVED—An interesting variety. The young growth is of a deep red, changing to a brilliant green.

ROSY PINKED LEAVED—A slow grower, with small leaves margined with rosy pink; distinct and beautiful.

Lilac (*Syringa*).

FRAU DAMMANN—This is the best white lilac grown. The panicle or truss is immense, flowers of medium size and pure white. This and *Ludwig Spaeth* are the two best lilacs of recent introduction.

LUDWIG SPAETH—New, and believed to be the finest of its class. Color purplish red. A great acquisition.

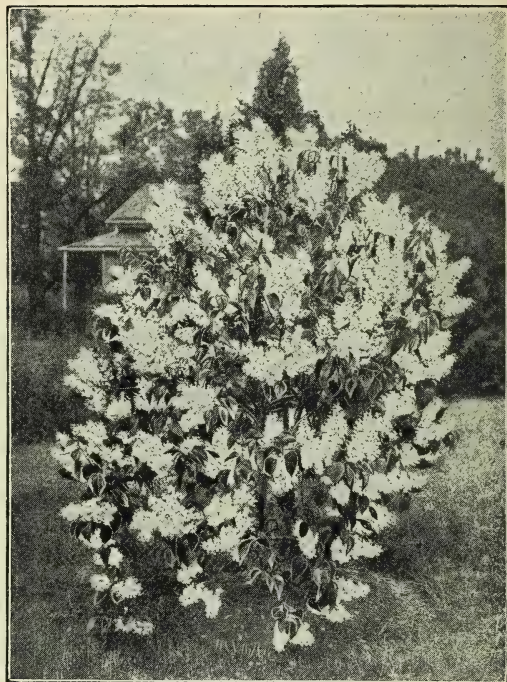
MARIE LE GRAYE—A free grower, producing magnificent large trusses of purest white flowers, which are very fragrant and showy. Highly recommended as perhaps the best of the white lilacs.

MADAME LEMOINE—New and very promising. Flowers double white.

PERSIAN, PURPLE or WHITE—Foliage resembles the *Privet* more than the lilac. Flowers are most abundant.

PURPLE COMMON—(*Vulgaris*)—The well-known sort.

RED—(*Rubra Insignis*)—New, and one of the choicest of its color.



FRAU DAMMANN

WHITE, LARGE FLOWERING—(*Alba Grandiflora*)—Very large; pure white tufts of flowers.

VILLOSA or TREE—A remarkable new species from Japan, becoming a good-sized tree; foliage dark-green, glossy; flowers small, feathery, but formed in great panicles, often 18 inches long; very light straw color; blooms a month later than other lilacs.

WEeping—New—A beautiful weeping tree; produces large clusters of beautiful, intensely sweet flowers. A great acquisition.

Plum (*Prunus*).

DOUBLE FLOWERING—(*P. Triloba*)—A very desirable shrub, introduced from Japan. Flowers semi-double, of delicate pink, upwards of an inch in diameter, thickly set; hardy; flowers in May.

PRUNUS PISSARDII—The tree is a decided contrast in itself. The leaves, as they first appear, on the tips are a beautiful orange color, and they mature to a rich purple, clear and distinct, growing darker as the season advances. The leaves remain until late in the fall—a decided contrast to other shrubs.

Privet.

BOX-LEAVED—A variety of erect habit, with short, dark, thick green leaves, which remain on the plant

until very late in the autumn. One of the best for the lawn.

LAUREL-LEAVED—Leaves are largest of any of this class; distinct and fine.

CALIFORNIA—A vigorous, hardy variety of fine habit and foliage, especially valuable for hedges where protection against cattle is not essential.

Quince, Japan (*Cydonia*).

SCARLET—Has bright scarlet crimson flowers in great profusion, early in spring. One of the best hardy shrubs; makes a beautiful ornamental hedge.

BLUSH—A beautiful variety with white and blush flower.

Snowball (*Viburnum*).

COMMON—(*V. opulus*)—A well-known favorite shrub of large size, with globular clusters of pure white flowers in the latter part of May.

JAPANESE—(*Viburnum Plicatum*) From North China; has very rich, deep green foliage, of handsome form and beautiful globular heads of pure white flowers, quite distinct from those of the common sort. A very desirable shrub.

TREE SNOWBALL—(*Viburnum Opulus*)—This is the old fashioned and very showy Snowball grown in tree form and is one of the best early bloomers. It is very conspicuous and attractive in tree form and far more handsome than the bush form. This is the first time this grand old favorite has been offered in tree form, and we recommend it as a novelty; worthy of a place everywhere.

Spiraea.

ANTHONY WATERER—This beautiful variety has the same habits as its parent, the Bumalda. It blooms about the close of June, continuing throughout the entire season. It is useful for edging, planting in masses or a single specimen, where a low, bushy shrub is required.

BILLARDI—(*Billard's Spiraea*)—Rose-colored; blooms nearly all summer.

BLUE SPIREA—(*Caryopteris Mastocanthus*)—A fine, low-growing shrub, from China, growing from 2 to 3 feet; blooms during entire season and until late in the fall; flowers of the most pleasing rich lavender blue. A great acquisition.

BUMALDA—New, and considered one of the finest of this class. Flowers brilliant pink, with variegated foliage.

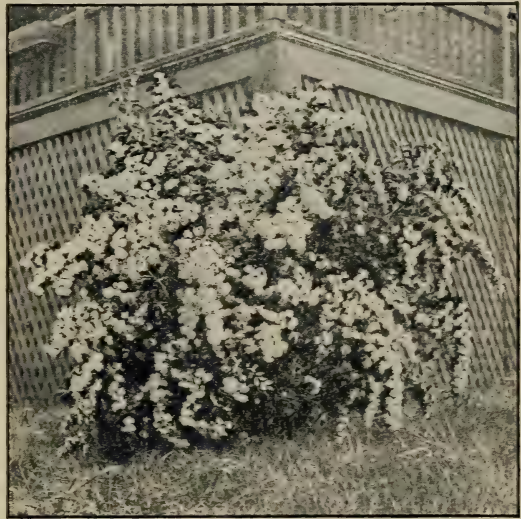
CALLOSA ALBA—A white flowering variety of dwarf habit; very fine; remains in flower all summer.

GOLDEN-LEAVED—(*Foliis Aureis*)—

A beautiful dwarf plant with golden-yellow foliage. It keeps its color the entire season, and creates a very pleasing effect among other shrubs.

PRUNIFOLIA FLORE PLENO—A beautiful shrub from Japan, with double white flowers in May.

REEVESII, or **LANCE-LEAVED**—A charming shrub, with narrow-pointed leaves and large, round clusters of white flowers that covers the whole plant.



SPIRÆA VAN HOUTTEI

VAN HOUTTEI—(*S. Van Houtteii*)—

The most showy of all the Spiraeas, and one of the very best flowering shrubs in cultivation. The plant is a rather tall, upright grower, with long, slender branches that droop gracefully with their weight of foliage and flowers. Flowers pure white, in great clusters and whorls, forming cylindrical plumes two or three feet long. This is one of the hardiest of all the Spiraeas. See cut—

Strawberry Tree. (See *Euonymus*).

Syringa.

MOCK ORANGE—(*Philadelphica coronarius*)—A well-known very hardy shrub; with showy white flowers, which are very fragrant.

LARGE FLOWERING—(*E. Grandiflorus*)—Large, showy flowers. A valuable variety.

GOLDEN-LEAVED—(*P. Foliis Aureis*)

A beautiful new variety with bright yellow foliage, which affords pretty contrasts with other shrubs, especially with the purple-leaved variety.



SYRINGA

PURPUREA MACULATA—This is a glorious sterling novelty of the popular Mock Orange. It is notable in having a blotch of purple at the base of each petal, forming a ring of purple around the center of each flower making it an exceedingly distinct variety. In habit it is trim and compact. Awarded First Class Certificate by the London Royal Horticultural Society.

VARIEGATED—A magnificent new variety, with beautiful foliage, somewhat similar to the Variegated Althaea. Very rare as yet; a great acquisition.

Weigela (Diervilla).

AMABILIS, or SPLENDENS—Of robust habit, large foliage and pink flowers. Blooms freely in Autumn; a great acquisition.

CANDIDA—Thought by some to be the best of all. Of vigorous habit, an erect grower; flowers pure white, produced in great profusion in June, the plants continuing in bloom through the summer.

DESBOISII—A beautiful variety with deep rose-colored flowers resembling Roses, but much darker. One of the upright, darkest and best.

EVA RATHKE—New. A remarkably free bloomer. Very distinct color, being a rich red, quite different from anything heretofore offered.

FLORIBUNDA—(Crimson Weigela)—The flowers are dark crimson, with white stamens projecting from them reminding one somewhat of Fuschia flowers. It blooms in the spring with other Weigelas, but if plants are topped off after young growth has been made, they bloom profusely in the fall. One of the best.

HORTENSIS NIVEA—Flowers pure white, retaining their purity during the whole time of flowering; foliage large.

ROSEA—An elegant shrub with fine rose-colored flowers. Introduced from China by Mr. Fortune, and considered one of the finest plants he has discovered. Quite hardy; blooms in May.

VARIEGATED-LEAVED—(Fol Variegata)—Leaves bordered with yellowish-white, finely marked; flowers bright pink.



WEIGELIA, VAR. LEAVED

EVERGREEN SHRUBS

Ashberry (Mahonia).

HOLLY-LEAVED — (Aquifolia) — A most beautiful shrub, with glossy, holly-like leaves, which change to brownish-green in winter, with clusters of bright, yellow flowers in May.

Box (Buxus).

DWARF — (Suffruticosa) — The well-known variety for hedge.

TREE BOX—Several sorts.

Euonymus.

RADICANS VARIEGATA—A charming shrub of dwarf and trailing habit; it is perfectly hardy and has foliage beautifully variegated with silvery white tinted with red in the winter. Unsurpassed for edging.

Rhododendron—In variety.

These are the most magnificent of all evergreen shrubs, with rich, green foliage and superb clusters of showy flowers. They require a peaty soil, free from lime, and a somewhat shaded situation; they do best near the seashore and will repay all the

care that may be bestowed in preparing a bed suited to their wants.

Thorn, Evergreen—(*Crataegus Pyracantha*)—The Evergreen Thorn is a low, bushy shrub, compact, dwarf habit, retaining its foliage well. Bears orange-scarlet berries; makes a pretty hedge.

HARDY CLIMBING SHRUBS

Ampelopsis.

AMERICAN IVY, or VIRGINIA CREEPER (*A. Quinquefolia*)—A native vine of rapid growth, with large, luxuriant foliage, which in Autumn assumes the most gorgeous crimson and purple coloring.

A. VEITCHII—(Veitchi's *Ampelopsis*)—Japan. Leaves a trifle smaller and more ivy like in form than the preceding. Overlapping each other they form a dense sheet of green. It grows rapidly and clings to the surface of even a painted brick wall with great tenacity. The foliage is especially handsome in summer and changes to a scarlet crimson in autumn. For covering walls, stumps of trees, rocks, etc.,



DUTCHMANS PIPE

Aristolochia, or Dutchman's Pipe.

SIPHO—A rapid growing vine, with magnificent foliage, ten to twelve inches in diameter, and curious pipe-shaped, yellowish-brown flowers.

Hydrangea, Climbing.

A handsome, rapid-growing vine with almost the characteristic in flower and foliage of the *Hydrangea Paniculata*. It clings with tenacity to

any object by which it may be planted and attains a height of fifty feet; has large white flowers.

Honeysuckle (*Lonicera*).

CHINESE TWINING—(*Japonica*)—A well-known vine, holding its foliage nearly all winter. Blooms in July and September and is very sweet.

HALL'S JAPAN—(*Halleana*)—A strong vigorous evergreen variety, with pure white flowers, changing to yellow. Very fragrant, covered with flowers from June to November.

JAPAN GOLDEN-LEAVED—(*Aurea reticulata*)—A handsome variety, having foliage beautifully netted or variegated with yellow.

MONTHLY FRAGRANT—(*Belgica*)—Blooms all summer. Flowers red and yellow. Very sweet.

SCARLET TRUMPET—(*Sempervirens*)—A strong grower and produces scarlet, inodorous flowers all summer.

Ivy.

COMMON ENGLISH—(*Hedera Helix*)

The Ivy, being an evergreen, not very hardy, and suffering from exposure to the winter sun, should be planted on the north side of buildings or walls. It is very effective grown in pots for inside decoration.

Matrimony Vine.

A vigorous hardy climber. It will soon cover any desired space. It has dark green foliage and beautiful flowers and loads of small berries, which are seen in all parts of the country at Christmas time.

Trumpet Vine—(*Bignonia Radicans*)—A splendid climber and hardy, with clusters of large trumpet-shaped, scarlet flowers in August.

Wistaria.

CHINESE PURPLE (*Sinensis*)—A most beautiful climber of rapid growth and producing long, pendulous clusters of pale blue flowers. When well established, makes an enormous growth; it is very hardy and one of the most superb vines ever introduced.

CHINESE WHITE—(*Sinensis Alba*)

Introduced by Mr. Fortune, from China, and regarded as one of his greatest acquisitions. Rather tender.

PAEONIES

A SPLENDID CLASS OF SHRUBS, flowering in all shades, from red and lilac to white, with blooms from four to eight inches in diameter. Many of them are very double and have a delicate and refreshing fragrance; they are easily cultivated and require but little protection.

CLASS I—PAEONIA MOUTAN TREE PAEONIES

Alba Plena—Double white, shaded with purple at the center.

Banksii—(Chinese Double Blush Paeony)—Very large, fragrant flowers; rosy blush with purple center. One of the finest.

Moutan—The parent species is a native of China. The varieties are hand-

some flowering shrubs, attaining from six to eight feet in height, in about ten years, with proper care. The flowers are remarkably striking, of gorgeous colors, very numerous and enormous in size, often measuring from six to nine inches across, and appearing in May.

CLASS II—CHINESE HERBACEOUS PAEONIES

These are beautiful, showy, and easily cultivated plants, blooming from the beginning of May till the end of July. They should be placed in every garden. A selection will give a continuous bloom for three months. We offer the best sorts varying from pure white, pink, rose, dark

red, purple and deep crimson.

Fringed Leaved Paeonies—(*Paeony Tenuifolia*, fl. pl.)—Foliage a bright lively green, in long thread-like filaments, giving it the appearance of fringe. Scarlet crimson; a choice variety; perfectly hardy.

ANEMONE JAPONICA (Wind Flower)

Red Flowering—A distinct and beautiful species; flowers $2\frac{1}{2}$ inches in diameter, bright purplish rose, with golden yellow centers, borne in great profusion from September to November. Height $2\frac{1}{2}$ feet; habit neat and compact; very desirable and effective as a pot plant, and in lines or masses in beds or mixed borders.

White Flowering—A distinct and beautiful variety of the preceding; flowers $2\frac{1}{2}$ inches in diameter, pure white, center golden yellow, borne in great profusion from September to November.

Whirlwind, Double White Flowering—New and beautiful, with ragged edges.

CANNA, CROCUS, DAHLIAS, ETC.

CANNA.

Stately and highly ornamental plants, for both flowers and foliage. They attain a height of 2 to 5 feet, and may be grown single or in masses. Leaves green or brownish red; flowers scarlet, crimson, yellow, cream, etc., variously marked.

CROCUS—A universal favorite and one of the earliest garden ornaments; should be planted about 2 inches deep. Color, blue, white, yellow and striped.

DAHLIAS—There is nothing that, with the same amount of money invested, will give more show of flowers than Dahlias. We offer dry bulbs or tubers.

GLADIOLUS—The Gladiolus is the most attractive of all the summer flowering bulbs, and deserves a place in every garden, as it is sure to flower and do well with very little care. Set the bulbs from 6 to 9 inches apart, and about 4 inches deep. Plant from middle of March to first of June.

HYACINTHS.

The most beautiful and fragrant of early spring flowering bulbs, much

used for winter forcing.

IRIS (German).

The true "Fleur de Lis," the national flower of France. They are perfectly hardy. Plants well established produce from 50 to 100 spikes of bloom, deliciously fragrant and fine for cutting. In beauty the flowers rival the finest Orchids.

Kaemferii (Japan).

Finest of all the Iris family. The flowers are of immense size, from 6 to 8 inches in diameter, and of the most beautiful and delicate shades. They are perfectly hardy, and flower in great profusion during June and July. The Iris thrives best if planted in moist soil.

JONQUILS (*Narcissus Jonquils*).

Pretty varieties of the *Narcissus*, having a very agreeable fragrance; adapted to either pots or outdoor culture. The bulbs being small, six or eight may be put in a 6-inch pot.

LILY-OF-THE-VALLEY.

This is as hardy as any plant can possibly be, and when planted in the open ground will increase rapidly. We can ship either in the spring or autumn.



TULIPS—Without these bulbs, for one or two months of beautiful spring weather, our gardens would present a bare appearance. We know of nothing that for the money invested will give a more gorgeous show during early spring and there is nothing more easily grown than the Tulip. Should be planted in October or November.



LILIUM LONGIFLORUM

LILIES (Lilium)

No class of plants capable of being cultivated out of doors possesses so many charms; rich and varied in color, stately and handsome in habit, profuse in variety, and of delicious fragrance. They thrive best in dry, rich soil, where water will not stand in winter. After planting they require very little care, and should not be disturbed for several years. Established plants bloom more freely than if taken up annually.

Auratum—(Gold Banded Lily of Japan)

Flowers very large, of a delicate ivory white color, thickly dotted with rich chocolate crimson spots, with a bright golden band through the center of each petal. The finest of all lilies.

Candidum—The old fashioned pure white garden lily. One of the hardiest.

Harrisii—(The Bermuda Easter Lily)—

Flowers large, trumpet shaped, pure waxy white, gracefully formed and delightfully fragrant. The ease with which it can be forced into flower in winter has made it wonderfully popular as a winter flower.

Longiflorum—A well known beautiful variety, with snow-white trumpet-shaped flowers that are very fragrant, quite hardy and blooms freely in the open ground in June and July.

Tiger Lily—Bright orange scarlet with dark spots; a strong growing, showy variety, and entirely hardy. Succeeds well everywhere.

Speciosum Rubrum—White, beautifully spotted red; flowers in August. One of the most useful of the Lily family, hardy and flowering well under all circumstances.

Speciosum Album—Very fragrant large flowers, pure white with a green running through the center of each petal.

HEDGE PLANTS

Hedges are valuable as a defense against animals, as wind-breaks, to protect orchards, gardens or farms unduly exposed, and as ornamental fences or screens to mark the boundaries of a lawn or cemetery lot.

DEFENSE AND ORNAMENT HEDGES

Buckthorn—(Rhamnus)—One of the most popular and effective plants. A fine, robust grower, of European origin, with dark green foliage, white flowers and small black fruit in fall.

Honey Locust—For turning cattle and as a farm hedge, is much the best in the Northern States. It is of vigorous growth, perfectly hardy, thrives with ordinary care and is sufficiently thorny to be impenetrable.

Osage Orange—In the South and South-

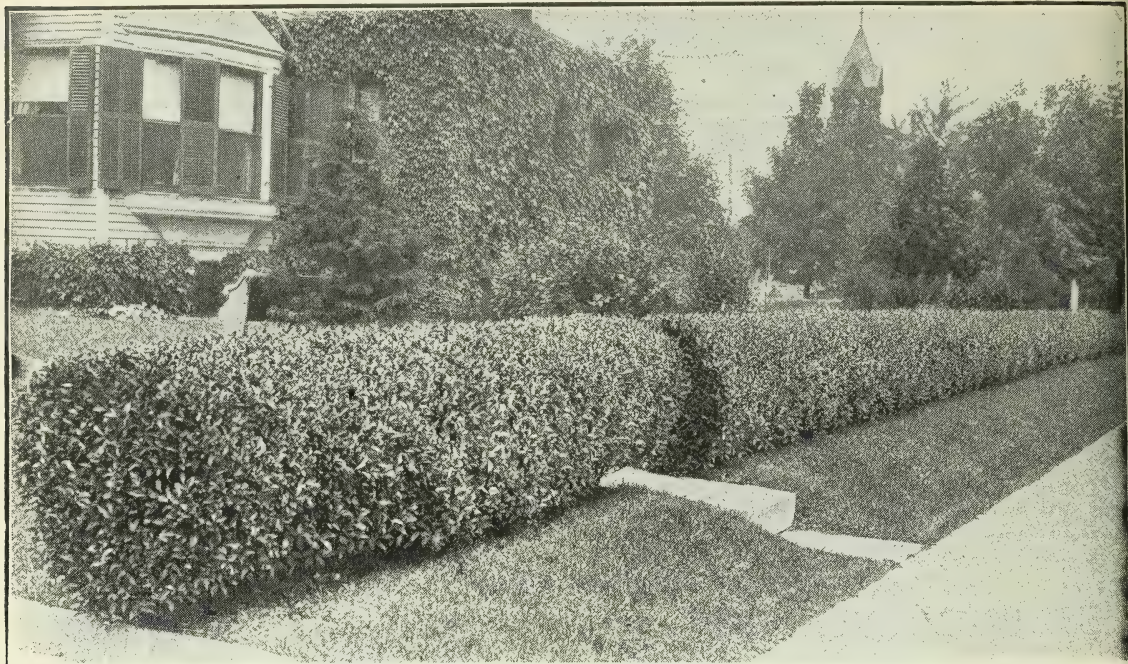
west is in great favor. Too tender for this climate.

Quince, Japan—See description, page 63.

HEDGE FOR WIND-BREAKS

Norway Spruce is the best. Its vigorous habit, rapid dense growth, when properly sheared or pruned, large size and entire hardiness, are characteristics not easily obtained in any other evergreen.

American Arbor Vitae comes next. Belts of pines are also useful as a protection.



CALIFORNIA PRIVET

ORNAMENTAL HEDGES OR SCREENS

American and Siberian Arbor Vitae, Norway Spruce, and especially Japan Quince and Purple Barberry, all described in their appropriate places in this Catalogue, make beautiful screens or hedges.

The Crimson Rambler Hedge—This rose is such a strong, rampant rapid grower that it soon makes a most desirable hedge or screen for a fence.

Trained along a wire fence and planted three to four feet apart, they form a perfect screen and when in full bloom with its thousands of miniature crimson roses in clusters makes a truly magnificent sight.

Privet, California—A pretty shrub with smooth, shining leaves and spikes of white flowers; also makes a beautiful hedge. Perfectly hardy.

BORDER PLANTS

We offer a fine assortment of the best varieties of these useful plants, which are exceedingly valuable on account of their hardiness, easy culture and showy appearance. They will mostly live all winter in the open ground and bloom freely every year. We name our leading sorts.

Christmas Rose—(*Helleborus Niger*).

Blush white flowers on short stalks about six inches high. Has the peculiarity of blooming quite abundantly during the winter in the open ground.

Dielytra—(*Bleeding Heart*)—Rosy, heart-shaped flowers hanging in great profusion from a gracefully curved stem. May and June.

Fox-Glove—(*Digitalis*).

Long bell shaped flowers on stems three to four feet high; white and red; very showy. July to September.

Gaillardia Grandiflora—(*Blanket Flower*).

Flowers large, brightly colored and of perfect form. Blooms from June till October or November. Grows two feet high; one of the best for cutting.

Hollyhocks—A fine collection of colors.

Larkspur—(*Delphinium*).

Flowers in terminal spikes in brilliant

blue, purple, white or red. June to August.

Phlox.

The Phlox is one of the most interesting of all our herbaceous perennial plants, and commends itself to everyone.

Veronica Longifolia Subsessilis—(*Blue Bird Flower*).

The handsomest hardy border-plant. Color of flowers, a lovely amethystine blue. It is a superb hardy perennial, growing to the height of two feet, flowering persistently in summer and late fall. It succeeds in any soil. The best hardy blue flowered plant we have. Superb.

Yucca—(*Adam's Needle*).

Handsome evergreen plants, with long, narrow, palm-like leaves, and tall upright stems, bearing showy, cream-like flowers. July.



"As long as there's a Sun that sets,
The Rose will have its glory."

We are constantly adding the most promising new kinds to our list, and have one of the best grown and best selected stocks of Roses in the country.

Cultivation.—Roses require plenty of manure and good cultivation. Old and decayed branches and at least half the previous season's growth should be cut away early each spring, and a little cutting back after the first blooming will insure more late flowers. The so-called tender Roses must be carefully protected in winter by covering them with leaves and evergreen boughs; and the hardy sort will be rendered more vigorous and productive of fine flowers, if they, too, are similarly protected.

Insects.—If the "thrip" or fly appears, syringe the plants daily with a strongly steeped solution of tobacco stems (one pound of stems to five gallons of water), or a solution of whale oil soap (one pound of soap to eight gallons of water), until the insects are mastered. Rose bugs, which work at flowers, must be picked off. The presence of the rose caterpillar can be detected by its glueing two or more leaves together to form a shelter. These leaves should be promptly pressed together with the thumb and finger. Insects which eat the leaves can be destroyed by applying White Hellebore when the foliage is damp. The secret of success in destroying all species of insects lies in the applying the appropriate remedy as soon as the insects appear.

Our Roses are strong plants grown out of doors, well rooted and every way desirable. They have already bloomed before being sent out, and are in every respect much better and stronger plants than the ones that are so fully advertised and sent out by mail, which are small, tender shoots, started in a greenhouse, and after a few weeks sent out before they have established growth and constitution enough to stand the shock of transplanting.

CLASS A—HARDY PERPETUAL OR REMONTANT ROSES

In this class are included the so-called "Hybrid Noisette," also a few of the "Hybrid Teas." These two groups contain some very beautiful varieties which cannot be omitted from any good list of Roses for outdoor cultivation, but as they are much more tender than any other in this class, they must be thoroughly protected in winter by a covering of forest leaves or other light litter. We also include Summer Roses (Hybrid China and others), blooming but once in the season, but very hardy and beautiful. As for the rest of this class, it comprises many of the most beautiful roses in cultivation, and as they are hardy and easy of culture, they must be, as a class the most popular and reliable for the multitude of planters. To insure their blossoming freely in the autumn, however, they must be cut back in the summer, and a portion of the first crop of flowers sacrificed.

The most of our roses are propagated on their own roots from cuttings. They are never liable to throw up suckers of an inferior kind.



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The most of our roses are propagated on their own roots from cuttings. They are never liable to throw up suckers of an inferior kind.

Alfred Colomb—Brilliant carmine crimson, very large, full, of fine globular form and extremely fragrant.

Anne de Diesbach—One of the best and most satisfactory Hybrid Perpetual Roses. A strong, vigorous grower, extremely hardy, producing very large, double flowers, of a lovely shade of carmine and delightfully fragrant.

American Beauty—Large, globular; deep pink, shaded with carmine; delicious odor; has proved to be a most delightful variety for forcing and may be found valuable for cultivation out of doors.

Augusta Mie—Delicate pink, finely cupped. A vigorous grower.

Baron de Bonstetten—Rich, velvety, maroon; large, full. A splendid sort.

Black Prince—Dark velvety crimson, almost black. A good grower and most magnificent rose.

Caprice—A true hybrid perpetual, perfectly hardy; a strong grower, a great bloomer. It has attracted a great deal of attention both on the Pacific Coast and the East. Valued chiefly as a novelty, being striped pink and white.

Caroline de Sansal—Clear delicate flesh color; fine form; a strong grower and one of the best of its color.

Caroline Marniesse—(Noisette)—Creamy-white, flowers small and full, and borne in very pretty clusters; an exceedingly free bloomer; low growing (18 inches) and especially desirable for the border of a bed; entirely hardy.

Clio—A rose of remarkable beauty, having received two first-class certificates and Reward of Merit. On the style of Baron Rothschild, having like it, large handsome flowers, of fine globular form, which are produced in great abundance. Color a delicate flesh, shaded in center with rosy pink. A magnificent rose in every particular.

Conrad F. Meyer—Splendid, large, elegantly formed buds and flowers, $3\frac{1}{2}$ to 4 inches across and perfectly double—color, rich peachy yellow, delicately tinged with silver rose; very fragrant, entirely hardy and valuable in every way.

Coquette des Alps—White, slightly shaded with carmine; form semi-cupped; wood long jointed; large handsome flowers. The strongest grower of the entire class.

Coquette des Blanches—Pure white, sometimes faintly tinged with pink; flowers of medium size,

somewhat flat, but full and very pretty; growth more bushy and symmetrical than any of the others; one of the hardiest.

Dinsmore—Scarlet crimson, large, double, very fragrant; free bloomer; one of the finest roses.

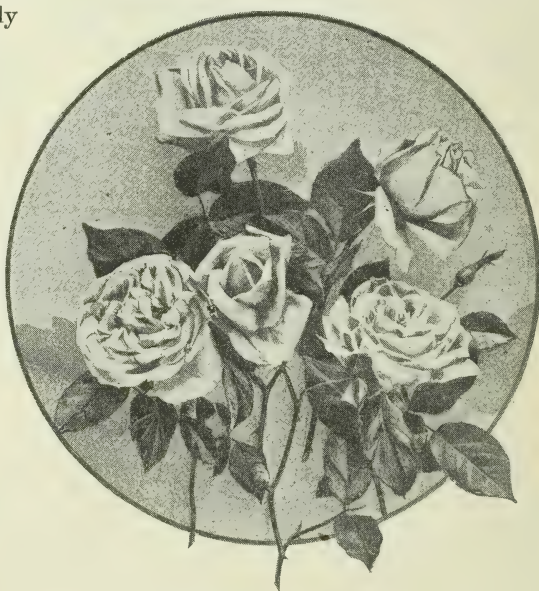
Duchess of Albany—Vivid crimson; flowers expand, and developing a beautiful shade; autumnal bloomer. Budded plants.

Duke of Edinburgh—Bright crimson, large, double flowers, slightly fragrant. Foliage large and attractive. A free bloomer early in the season.

Earl of Dufferin—One of the finest roses of recent years; red and velvety crimson, shaded with dark maroon. Large flower, finely formed, vigorous grower. One of the very finest dark roses and should be in every garden.

Etoile de Lyon—(Star of Lyons)—The best pure deep yellow rose for garden planting, hardy and beautiful.

Frau Karl Druschki or (Snow Queen)—It is perfectly hardy everywhere and a most vigorous grower, throwing up enormous shoots which are covered with snow white blossoms. Although we have many so-called white roses, it is a fact that before the introduction of Frau Karl Druschki we have not had a pure snow-white hardy rose. Heretofore the white roses have been tinged with pale pink or cream color. A grand rose sure to be in great demand.



FRAU KARL DRUSCHKI

Fisher Holmes—One of the choicest of perpetual roses. Bush is vigorous and produces freely of superb blossoms. Color brilliant carmine crimson.



GRUSS AN TEPLITZ

Francois Levet—Cherry red; medium size; well formed; one of the Paul Verdier style; very free bloomer and vigorous grower.

General Jacqueminot—Brilliant crimson, large and very fine; one of the handsomest and most showy roses of this color. Beautiful in the bud, semi-double when full grown. Of fine free growth; a universal favorite.

General Washington—Fine crimson; very full and double; a moderate grower; one of the handsomest roses when well grown.

Glorie de Margottin—New. This is the brightest colored rose yet introduced and is in every way a most desirable variety, being a good, strong, vigorous grower and free bloomer; good for either forcing or outdoor culture.

Golden Gate—A rose of surprising beauty, extra large, very double and full and delightfully fragrant. Rich creamy white; beautifully tinged with golden yellow and bordered with clear rose, a constant bloomer, extra fine.

Gruss an Teplitz—(Virginia R. Cox, or Crimson Hermosa)—This grand rose has proved one of the best and most valuable hardy crimson ever-blooming roses for garden planting ever introduced. The color is dark rich crimson passing to velvety fiery red, one of the very brightest colored roses we know. Flowers large, full and sweet; very showy and handsome; blooms constantly, throwing up fresh buds and flowers the whole growing season. It is a healthy vigorous grower, entirely hardy here. Cannot be recommended too highly; everyone should have it.

Helen Gould—The most satisfactory rose of its color for general planting ever introduced. Better than American

Beauty. Beautiful long-pointed buds, and immense, full and perfectly double flowers. Color warm, rosy crimson.

Helen Keller—Flowers large, of most perfect form and fragrant. Color brilliant rosy cerise. A vigorous grower and very free bloomer. A most distinct and lovely rose.

Her Majesty—A remarkably strong-growing variety, often throwing up shoots six feet in length; the flowers are of unusual size, specimens having been exhibited that were fully six inches across. Color a beautiful, clear, satiny pink.

John Hopper—A seedling from Jules Margottin; fertilized by Mme. Vidot. Bright rose with carmine center; large and full; light red thorns, not numerous; a profuse bloomer and standard sort.

John Keynes—A strong grower and as hardy as any of the perpetual family. Flowers very large and fine; brilliant carmine. A splendid rose.

Jubilee—Flowers very large; color described as intense crimson, maroon red; fragrant, strong and lasting. Plant very vigorous; large, dark green foliage.

Jules Margottin—Bright cherry-red; large and full; free flowering and hardy.

Killarney—The best hardy garden rose. The color is an exquisite soft pink, of fine satin texture, with a rare and delightful fragrance. The buds are remarkably beautiful. The more they expand the richer and more beautiful becomes the color. It flowers continually from June until November. It is perfectly hardy and will stand our severest winters.

La France—Delicate silvery rose; very large and full; an almost constant bloomer; equal in delicacy to a Tea Rose; the most pleasing fragrance of all roses; only a moderate grower, but most desirable.

La Reine—Brilliant, glossy rose, very large, cupped and beautiful; a very hardy useful rose.

Lady Helen Stewart—Another beautiful and valuable variety. Bright crimson, scarlet; large, full and of perfect form; highly perfumed.

Liberty—Deep bright crimson scarlet, one of the richest colored roses we have; beautiful buds and large full flowers, very fragrant; a constant bloomer; fine for house culture and cut flowers.

Louis Van Houtte—Crimson, maroon, medium size, sometimes large, full. A tender sort, but very free blooming and altogether the best crimson rose we have. A moderate grower.

Lord Penzance—(Sweet Brier)—Foliage sweetly scented; strong grower, perfectly hardy. Colors in variety.

Margaret Dickson—Of magnificent form, white with pale flesh center; petals very large, shell shaped, and of great substance; foliage very large, dark green.

Mabel Morrison—A sport from Baroness Rothschild. Flesh white, changing to pure white; in the autumn tinged with rose; double cup-shaped flowers, freely produced. It is one of the best white hybrid perennials.

Madam Gabriel Luizet—For loveliness in color, fragrance, size and freedom of blooming qualities, this rose has no equal to-day; equally good as a bedding rose out doors. Pink, distinct, very large, cup-shaped, somewhat fragrant. As an exhibition rose will rank with its rival, Baroness Rothschild.

Madam Plantier—Pure white, medium size, full; flowers produced in great abundance early in the season.

Mad. F. Kruger—Named after the wife of Oom Paul Kruger, President of the late South Africa Republic. Fine large buds and flowers fully double and borne well up on strong, vigorous bushes; color soft rose pink, elegantly shaded with crimson and amber; very handsome and showy and delightfully sweet.

Mamam Cochet—Silvery pink; a most wonderfully beautiful French rose of great value. The beautiful, big, elongated buds and full blown double flowers are exquisitely charming, while the fragrance is rich and delicious. The color is fleshy pink, with the inner side of petals silvery rose. Grows vigorously and blooms with great freedom.

Marie Bauman—Brilliant carmine crimson; large, full, of exquisite color and form; very fragrant, extra fine. Budded plants.

Marchioness of Dufferin—A new rose which has attained much popularity. It is of enormous size, beautiful rosy pink, suffused with yellow at the base of petals; a very strong rapid grower; considered one of the finest.

Marie Rady—Vermillion, shaded with crimson; large, very full, of fine globular form. A fragrant, superb sort.

Marchioness of Londonderry—Ivory white, fine form, highly perfumed; plants vigorous and free flowering. Unquestionably one of the largest roses, blooms, attaining a diameter of six inches when fully developed, and one of the sweetest of the Hybrid Perpetuals.



MARCHIONESS OF LONDONDERRY

Magna Charta—Bright pink, suffused with carmine; very large, full and fragrant with magnificent foliage. A free bloomer. For the earliest deep color is still the best.

Marshall P. Wilder—Raised from the seed of the General Jacqueminot. It is of vigorous growth, with healthy foliage; flowers large, semi-globular, full, well-formed; color cherry-carmine. In wood, foliage, form and flower, it resembles Alfred Colomb.

Marguerite de St. Amande—Free. Bright rose; very beautiful in the bud state; this variety will give more fine blooms in the autumn than almost any other in the class. One of the most valuable roses.

Maurice Bernardin—Free. A seedling from General Jacqueminot. Bright crimson; large, moderately full; a good free blooming sort, generally coming in clusters. Perhaps the most prolific of all crimson roses in the spring.

Mrs. John Laing—New. As a budding rose this is undoubtedly one of the best varieties yet introduced, being hardly ever out of bloom all summer. Color a beautiful shade of delicate pink; of large size and very fragrant. It is also a good forcer from January onwards.

Mrs. R. G. Sherman Crawford—Color deep rosy pink, outer petals shaded with pale flesh, white at base of petals; flowers large, of perfect intricate form and freely produced, flowering from early summer until late in autumn. Growth vigorous. Awarded gold medal of the National Rose Society of England and many first-class certificates. A valuable addition.

Merveille de Lyon—Pure white, shaded and marked with satin; flowers very large, double, and of beautiful cup shape. A seedling from Baroness Rothschild. A superb variety.

Meteor—As a dark crimson perpetual blooming rose, this ranks as one of the best yet introduced of any class. It is especially valuable for summer and fall, blooming either in the greenhouse or in open ground, and where there is a demand for fine roses in summer this variety will become a great favorite.

Madam George Bruant—(White)—A seedling from the Japan Rose—*Rosa Rugosa* and Tea Rose—*Sombrioul*. From these it gets exquisite sweetness and its everblooming character. Considered by the best judges to be of great value.

Paul Neyron—This magnificent rose, by far the largest variety in cultivation; very double and full, of beautiful deep rose color, and delightfully fragrant; borne upon vigorous, upright shoots in great abundance throughout the entire season. We recommend this variety very highly for general planting as it is calculated to give more satisfaction to the masses than any other known variety.

Paeonia—Red; large or very large; fragrant and a free bloomer. A good garden variety.

Persian Yellow—Deep, bright yellow; small but handsome; double; a very early bloomer, and much the finest hardy yellow rose.

Pierre Notting—Blackish-red, shaded with velvet; globular form, very large and full, and one of the finest dark roses. Needs some winter protection.

Piux IX.—Deep rose, tinged with carmine, large and full; a robust grower and profuse bloomer.

Prince Camille de Rohan—Deep, velvety crimson, large, moderately full. One of the darkest in cultivation and a splendid rose.

Soliel D'Or—(Golden Sun)—New. Hardy yellow rose; foliage glossy. Robust in growth and is sure to be popular.

Sunrise—This is one of the most beautiful everblooming Roses in cultivation; the flowers are extra large, perfectly double and delightfully tea-scented. Dark peachy red, elegantly shaded with orange and crimson—like the Sunrise tints seen in the summer sky—a strong, healthy grower and free bloomer.

Sunset—The new orange yellow Rose; ground color deep orange yellow, thickly shaded with dark ruddy crimson; beautiful buds and large full flowers, deliciously tea-scented.

A strong, healthy grower and abundant bloomer.

Ulrich Brunner—A superb rose; a seedling from Paul Neyron; extra large, bold flowers; full and globular; petal large and of good substance; color rich, glowing crimson, elegantly lighted with scarlet; fragrant.

Victor Verdier—Fine, bright rose, shaded with carmine; very hardy and a fine bloomer; a splendid rose.

ROSA RUGOSA

This is a very interesting group, of Japanese origin. The flowers are mostly single. The plant is highly ornamental on account of its good habit and beautiful glossy foliage.

Rugosa Alba—A species from Japan. Single, pure white flowers of five petals; highly scented; a splendid shrub.

Rugosa Rubra—Another Japan variety. Flowers single, of a most beautiful bright rosy crimson, succeeded by large berries of a rich rosy red color, and are a great addition to the ornamental character of the plant. Makes a beautiful low hedge.

HARDY CLIMBING ROSES

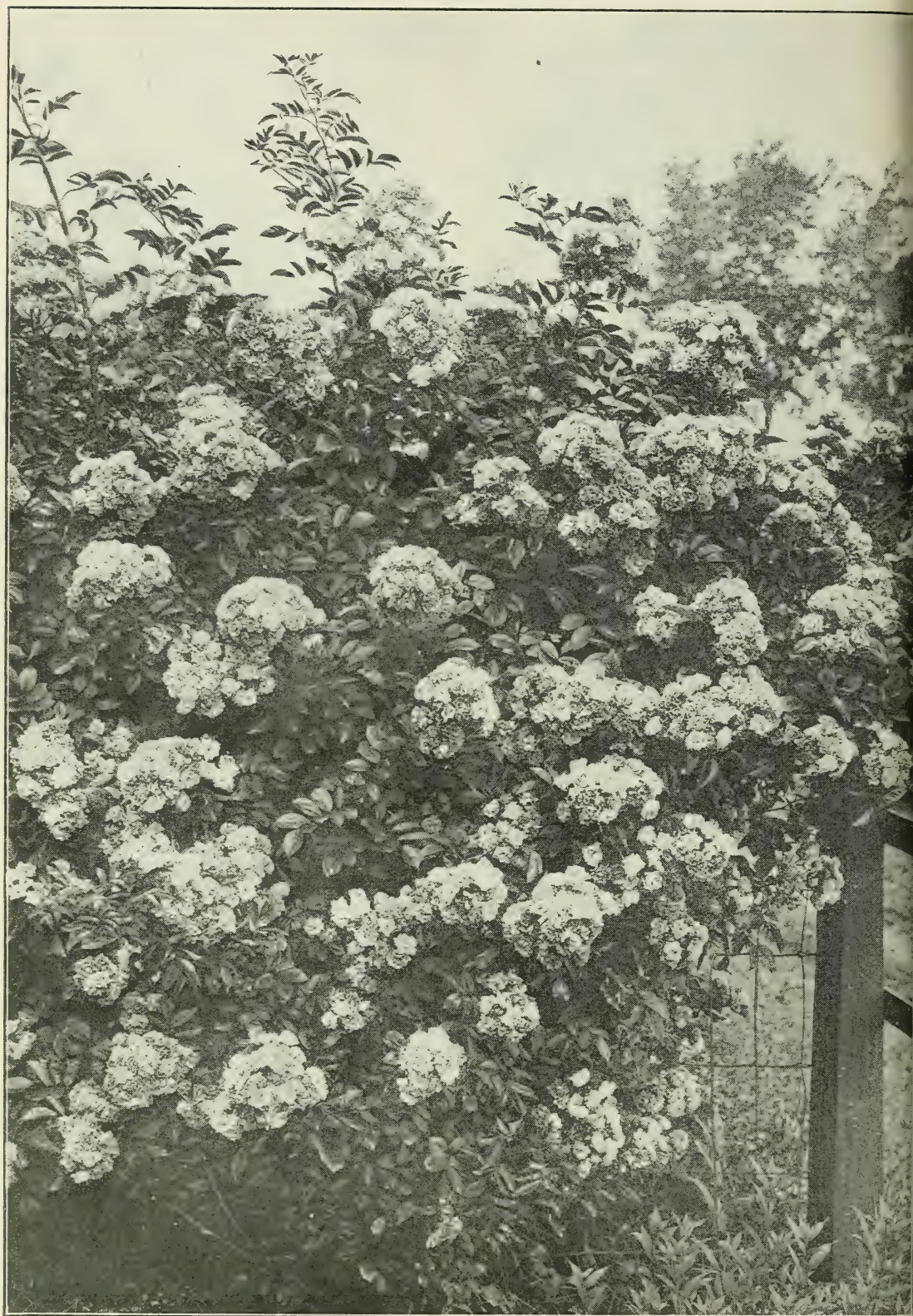
Baltimore Belle—Pale blush, nearly white; double; the best white climbing rose.

Crimson Rambler—(Climbing Polyantha)

—A wonderful rose from Japan, bearing immense trusses of deep crimson flowers, which hold their beautiful color a long time without fading. The plant is a very vigorous grower and thus makes a splendid climbing rose, though it may also be grown in bush or pillar form. When in full bloom and covered as it is with its great trusses of flowers, containing thirty to fifty blossoms each, it is a most magnificent sight. It has proved entirely hardy in this country, and is a very great acquisition to our rose garden.

Climbing Jules Margottin—Carmine rose, fine in open flower and in bud; the best of all climbing sorts. It may be grown either as a Pillar Rose or by pruning, kept in bush form, it should be in every collection.

Dorothy Perkins—A hybrid of *Rosa Wichuraiana* and *Mme. Gabriel Luizet*. In its foliage, growth, and habit of blooming, it is remarkably like *Crimson Rambler*, but the flowers are more double and of a beautiful shell-pink color, and hold a long time without fading. The flowers are also very sweetly scented, a characteristic not possessed by most other Roses of the Rambler family.



CRIMSON RAMBLER



LADY GAY

Queen of the Prairie—Bright rosy red, frequently striped with white; large, compact and globular.

Victor Verdier Climbing—Resembles Victor Verdier, of which it is a seedling, but having a decided climbing habit. This variety is particularly desirable on account of its vigorous constitution and free flowering habit.

White Rambler—Similar in origin, habit of bush and bloom to Crimson Rambler, but not so strong a grower.

Empress of China—A perpetual blooming climber. The color is a dark red in the bud, and changes as the flower opens and grows older to a lighter red or pink.

Gem of the Prairie—Carmine crimson occasionally blotched with white; a cross hybrid between Madam Laffay and Queen of the Prairie.

Greville, or Seven Sisters—Crimson, changes to blush; flowers in large clusters.

Lady Gay—This Rose is superior to crimson Rambler of which it is a seedling and which it closely resembles in habit of bloom and vigor of growth. The flowers (in large, loose clusters) are of a delicate cherry pink color, fading to soft tinted white. The effect of a plant in full bloom with the combination of soft white flowers, cherry pink buds and deep green of the foliage is indeed charming. It is perfectly hardy and unsurpassed for climbing work.

Mary Washington—One of the hardiest of ever-blooming climbers, a remarkably free bloomer, producing medium-sized pure white flowers in large clusters. An extra strong grower when established.

Pink Rambler—Flowers medium size, pink in clusters. Very pretty.

Wichuriana—(Memorial Rose)—Charming trailer from Japan; produces numerous clusters of white fragrant flowers in July. Very hardy and vigorous. Valuable as a covering for banks, rockeries, etc., and for use in cemeteries.

Yellow Rambler—(Aglaia)—The hardiest yellow climbing rose yet introduced. Very fragrant and a very vigorous grower; a worthy companion to the wonderful Crimson Rambler.

DWARF PERPETUAL RAMBLERS

Baby Rambler—This new rose is a cross between Crimson Rambler and Glory of Polyanthus, and may be described as a dwarf form of the widely known and popular climbing rose, Crimson Rambler, being hardy, vigorous and perpetual flowering. The flowers are large, well formed, of a crimson red color, and borne in clusters.

Pink Baby Rambler—(Anny Muller)—This new Pink Baby Rambler is of the same free flowering Polyantha class as the



BABY RAMBLER

Crimson Baby Rambler. The blossoms are a fascinating shade of deep rose with petals curled and twisted, producing a fluffy effect. Its hardiness, vigorous habit of growth, with well-branched bushes and healthy, rich green foliage, are all qualities which (just as in the case of the Crimson Baby Rambler) commend it to the careful buyer.

White Baby Rambler—(Schneewittchen or Snow)—One of the most charming Roses in the Polyantha class is this little rose. It continues to bloom all Summer through with amazing freedom and fulness. Bushes candleabra shaped and each branch bearing from 15 to 50 little flowers, creamy-white passing to snow-white. A truly charming rose and affords an abundance of flowers for cutting.

MOSS ROSES

Blanche Moreau—Pure white, large, full and of perfect form; the buds and flowers produced in clusters and freely furnished with a deep green moss. A valuable variety.

Blanche Robert—Flower pure white, large and full; buds very beautiful. A rampant grower, being almost as vigorous as a climber.

Countess de Murinais—Pure white, large, very desirable; the finest white moss.

Crested—Deep pink buds, surrounded with mossy fringe and crest; very beautiful and fragrant; growth slender.

Glory of Mosses—A moderate grower.

Flowers very large, appear to best advantage when full; color pale rose.

Luxemburg—Deep crimson; fine grower.

Princess Adelaide—A vigorous grower, pale rose, of medium size and good form.

Perpetual White—Pure white.

Salet—A vigorous grower and perpetual bloomer. Light rose, large, full. The best of the class. A true perpetual moss, blooming at intervals from June to November.

White Bath—White, sometimes tinged with flesh; attractive in bud and open flower. This is by far the best white moss.

PERPETUAL TENDER ROSES

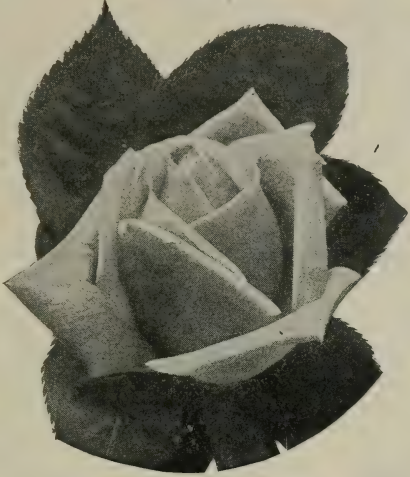
Under this head we include all classes of Tender Roses—Bourbon, China, Noisette and Tea, and indicate the class to which each variety belongs with the letter B, C, N or T respectfully.

Agrippina—(C)—Red, velvety crimson; moderately double; fine in buds; valuable for planting out. One of the best.

Bon Silene—(T)—Rosy carmine, shaded with salmon; fragrant and very free flowering. Valuable for the buds.

Bride—(T)—A lovely pure white Tea Rose of large size. Admirable for forcing as well as for summer flowering. The buds have more substance than Niphetos, are full and double, and possesses the good characteristics of Catherine Mermet.

Bridesmaid—An exquisite rose, both in bud and open flower; bright, clear pink, large and very double, stems long and stiff; foliage handsome and glossy. Excellent for both summer and winter flowering.



BRIDESMAID

Catherine Mermet—(T)—Bright flesh color, with the same peculiar lustre possessed by La France. Large, full and beautiful. One of the finest Teas.

Cornelia Cook—(T)—Pale yellowish white, tinged with flesh. A superb rose when well grown.

General Tartas—(T)—Deep crimson, often mottled; of special value for its buds.

Glorie de Dijon—(T)—Climber. A combination of salmon, orange and buff; early; large, and of good globular form; hardy.

Hermosa—(B)—Bright rose; a most constant bloomer; hardy; one of the best.

Kaiserin Augusta Victoria—(T)—A superb rose, to which too much praise cannot be given. It is of soft pearly white, fragrant, a strong, healthy grower, with bold, beautiful foliage. Flowers are borne in profusion, on long, graceful stems, every shoot being crowned with a magnificent flower.

Lyon—A splendid new Hybrid Tea direct from France. A rose of rare excellence. The form is full and globular with large broad petals of good texture. The flowers are remarkably rich in color, being a "shrimp pink at ends of the petals, center coral red or salmon pink shaded with chrome yellow." It is "very fragrant" and above all a "perpetual and incessant bloomer." At Lyons it received the "Prize of Honor with warmest congratulations of the judges." One of the best new roses.

Marechal Neil—(N)—Deep yellow; very large, very full, globular, highly scented; requires careful treatment. It should be severely pruned. The finest yellow rose.

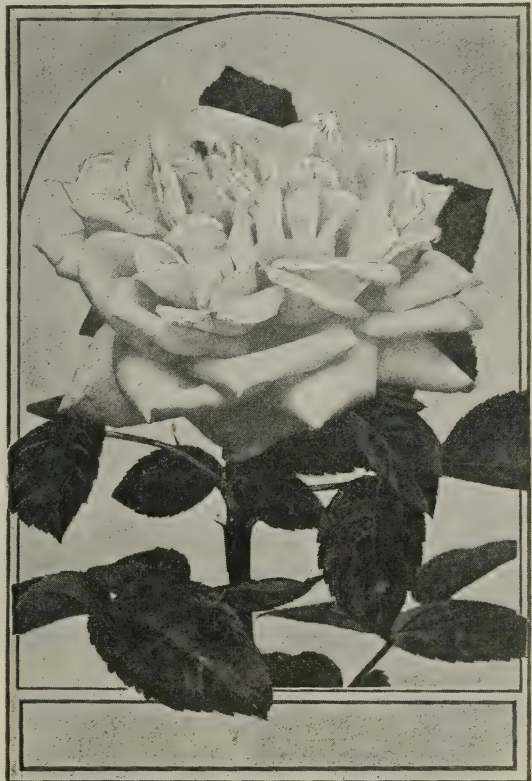
Mrs. Robert Garrett—A splendid hardy ever-bloomer, both buds and flowers are of grand size and perfect form; color exquisite shell-pink passing to soft glowing rose, delicately tinted with creamy yellow; extra fine.

Niphetos—(T)—Pale, yellowish-white, often snowy white. Long, large buds. Very beautiful.

Papa Gontier—(T)—Rich cherry red, reverse of petal crimson; large, semi-double, fragrant, free flowering; very popular winter forcing.

Perle des Jardins—(T)—A beautiful straw color, sometimes deep canary; very large, full, and of fine form; stiff shoots or stems, and very free flowering. Now established as the most popular yellow rose for forcing.

Richmond—Last Winter during the Annual Convention of the American Rose Society in Washington, some 200 members called on President Roosevelt and presented him with



WHITE LA FRANCE

the finest bouquet from their Exhibition. It was a vase of Richmond Roses. It is a grand rose for house culture and forcing, producing splendid buds and flowers on fine long stems. Bright glowing scarlet crimson, exceedingly bright and beautiful.

Safrano—(T)—Saffron and apricot. A very free bloomer. One of the oldest and best varieties, especially when used in the bud state.

Souvenir de la Malmaison—(B)—Pale flesh with a fawn shade; very large, showy, beautiful. An old favorite.

White La France—(Augustine Guinoisseau)—Buds and flowers are extra large, very full and finely formed, and delightfully perfumed. It blooms all through the season and is a rose that everyone will like to have.



CRIMSON RAMBLER TREE ROSE

POLYANTHA ROSES

This charming class is from Japan and of recent introduction. The foliage and flowers are very small, the latter being produced in clusters. They are of slender growth and produce extremely beautiful little flowers. They are quite as hardy as many well known varieties that are considered perfectly hardy. We offer four

Cecil Brunner—Salmon pink, deep scarlet center. Very small flower, delicately scented.

Clothilde Soubert—Medium sized, very double, produced in clusters; pearly white, with rose lake center, sometimes producing red and white flowers on same plant. Considered one of the best, if not the best of its class.

Parquette—An old standard white variety; flower pure white, about an inch in diameter. Flowers in clusters from five to fifty blossoms.

Perle D'Or—Nankeen yellow with orange center. Bush very branching, blooming in clusters of twenty to thirty flowers.

TREE ROSES

These are top-grafted or budded upon strong growing wild stocks at a distance of $3\frac{1}{2}$ to $4\frac{1}{2}$ feet from the ground. They thus form tree-shaped plants, nicely headed, and with proper care they are very desirable. We offer them in all colors.

Crimson Rambler Tree Rose

—The beauty and vigor of this remarkable rose is now well known from ocean to ocean, but grown as a tree, it is a novelty sure to become even more popular than in bush form. Its great vigor and hardiness make it especially adapted for this form of growth.

Insect Enemies and How to Destroy Them.

We embody herewith brief but plain descriptions of the various insects which attack different classes of trees and plants, and in each case the best known remedy. Our directions can be relied upon implicitly, and we need only ask our friends and customers to follow the directions in each case to the letter.

DIRECTIONS FOR PREPARING THE REMEDIES.

Paris Green or London Purple—These poisons are used either in solution or dry form. In solution one pound is mixed with from 100 to 300 gallons of water, the strength depending on the plant sprayed and the insects to be destroyed. The poison should first be mixed with enough water to form a paste, after which the full quantity may be added. It is always best to add one or two pounds of lime for each pound of the green, as the danger to foliage will be much lessened thereby. Paris Green alone is sometimes applied in dry form. It is best, however, to mix each pound with ten pounds of flour or plaster. The liquid is much less objectionable, and we would in all cases recommend it.

Kerosene Emulsion—Take common bar soap, one-half a pound, water one gallon, and kerosene two gallons. Shave the soap into the water, then heat the whole until all the soap is dissolved; add the soap liquid, boiling hot, to the kerosene, and churn for ten minutes by pumping it back into itself; when cool, the emulsion should have the consistency of thick cream or soft butter, this depending somewhat upon the kind of soap used.

INSECTS AFFECTING THE GRAPE—The Flee Beetle

This small, steel blue insect, appears in early spring, and at once begins eating the tender foliage. After eating about a moment the female beetle deposits small yellow eggs on the foliage.

These soon hatch into small larvae, which continue the work of destruction.

Remedies—Spray with Paris Green, one pound, and one and one-half pounds lime to 200 gallons of water, as soon as the beetles are noticed. Two applications of this solution at intervals of a week or ten days, will usually destroy all the insects.

The Rose Bug

It makes its appearance early in the summer, devouring flowers, young fruit and leaves. The beetle is about half an inch long and of a brown color.

Remedies—The best results have followed the use of Pyrethrum, which should be applied in solution at the rate of one ounce to two gallons of water.

INSECTS AFFECTING THE APPLE—The Codling Moth

The little white caterpillar, whose effects are so familiar to everyone, is the larvae of a small nocturnal, gray moth. The moth deposits her eggs on the blossom end of the fruit. As soon as the eggs hatch the larvae eats its way into the young fruit; the rest of the story is well known to every one.

Remedies—Spray the trees with Paris Green or London Purple at the rate of one pound to 250 gallons of water add one and a half pounds of lime, first when the flowers are falling and again when the fruit is the size of peas.

The Canker Worm

This measuring worm eats the green portion of the leaf, giving the tree a brownish color, as though scorched by fire. The worms appears in early spring, and when full grown are an inch long.

Remedies—Spray the trees when the leaves are one-third grown, with Paris Green solution, one pound to 200 gallons of water, add one and a half pounds of lime. Usually one spraying will be sufficient, but if the worms appear to be on the increase a second application will be advisable.

Apple Tree Tent-Caterpillar

The large silken nests made by this insect are familiar to every one. The caterpillars appear in May or June, and in five or six weeks have attained their full size.

Remedies—Cut out and burn the nests as soon as they are seen, taking the precaution to do this in the morning when the caterpillars are all in. This, together with one or two sprayings of Paris Green solution, having a strength of one pound to 200 gallons of water, and one and a half pounds of lime, will effectually rid the trees of the pest.

The Apple Aphis

Apple trees are often attacked early in the season by this insect. The lice are quite small and green in color. By sucking the juice from the young growth they greatly interfere with the functions of the latter, and as a result the tree has a sickly, yellow appearance.

Remedies—Spray with kerosene emulsion at the rate of one gallon to twenty of water, as soon as the lice appear. Repeat the treatment in eight or ten days if necessary. A decoction made by soaking over night four or five pounds of tobacco stems, or refuse tobacco of any kind, in five gallons of water, will also be found an excellent remedy against the lice.

The Oyster Shell Bark Louse

There are frequently seen on the trunks, branches and twigs of the apple tree, small, whitish shells, resembling in shape those of an oyster. Under these shells are numerous small lice busily engaged in sucking the sap from the tree.

Remedies—Scrape the trees thoroughly in spring before the leaves appear and then paint the trunk and large limbs with a thick solution made by dissolving one quart of soft soap in half a gallon of hot water. Two ounces of crude carbolic acid added to this will also increase its efficacy. Make no further treatment until the middle of May, when kerosene emulsion, one gallon to twenty-five gallons of water, should be applied. It is always best to apply the emulsion soon after the lice hatch.

INSECTS AFFECTING THE PEACH—The Black Aphis

Numbers of this small, shiny black insect may be seen in the spring on the leaves and twigs of the peach. The lice often do a great deal of damage above ground as well as below on the roots.

Remedies—For the form above ground, spraying with kerosene emulsion, one gallon to thirty-five gallons of water, is the most effective remedy. The first spraying should be made as soon as the lice appear; if necessary, this should be followed by others at intervals of a few days until the trees are rid of the pest. Under the ground the lice are best destroyed by digging in tobacco stems or dust among the trees. The tobacco is scattered on the ground to the depth of half an inch or more, then dug in with a spade or fork.

Peach Yellows

This is one of the few diseases as to which very little is positively known, except its effects. It usually makes its appearance about mid-summer, causing the foliage of the trees to turn yellow, and soon thereafter the body and large limbs will throw out a considerable number of weak, yellow leaved suckers. If the tree is loaded with fruit it will be under size, little or no flavor, and ripen prematurely.

Remedies—The moment that you feel sure that a tree is affected with yellows, dig it up root and branches and burn it, and plant any tree that you like, other than a peach tree, in its place.

INSECTS AFFECTING THE PEAR—The Pear Tree Slug

This insect attacks the leaves, eating away the green portion so that nothing remains but the parchment-like tissues and veins. It appears usually the latter part of June and again in August.

Remedies—Spraying with a simple solution of milk of lime, made by mixing two pounds of lime, in twenty gallons of water, will often rid the tree of this pest. The first application should be made as soon as the slugs are noticed; if necessary, others should follow in a week or ten days. By adding a little Paris Green, say one ounce to the lime of milk, the latter will be made more effectual.

The Scurfy Bark Louse

This insect resembles the Oyster Shell Bark Louse already described as attacking the apple.

Remedies—The same as for Oyster Shell Bark Louse.

Pear Blight

It is understood by the best authorities, both practical and scientific, that the cause of the disease is absolutely unknown, and there is but one certain remedy, namely to cut out the blighted parts promptly on appearance of the disease and burn them.

INSECTS AFFECTING THE PLUM—The Curculio

This little grub originates from eggs deposited by a small, dirty gray beetle, when the flowers are still small.

Remedies—The most reliable way now known of dealing with Curculio is to spray it with Paris Green. The first application should be made when the flowers are falling, using a solution made by mixing one pound of Paris Green in 200 gallons of water, and adding one and a half pounds of lime. In a week or ten days make a second application, and follow this by another after the lapse of same length of time.

The Plum Tree Aphis

This insect resembles the one occurring on the peach, and like it may be destroyed by spraying with kerosene emulsion, made by mixing one gallon of the concentrated emulsion in twenty gallons of water.

Black Knot

The most scientific as well as practical fruit growers in the country are by no means agreed as to the cause of Black Knot on plum and cherry trees, but they are entirely agreed as to the only known remedy, namely: Just as soon as the Black Knot appears cut it out, removing the branches at least two inches below where the knot appears. Burn the affected parts and follow this method promptly, thoroughly and in most cases, you will have exterminated the disease before it has done serious damage.

INSECTS AFFECTING THE CHERRY

The Cherry is injured by plant lice, resembling those occurring on the peach or plum. The Pear Tree Slug also attacks the leaves, while the fruit is infested by the Plum Curculio.

Remedies—The remedies given under peach and pear insects should be adopted in this case.

Black Knot

Cherry trees are affected with Black Knot the same as the plum trees, and the same remedies should be used.

INSECTS AFFECTING THE CURRANT AND GOOSEBERRY—The Currant Worm

The perfect form of the worm is a small fly, which lays its eggs on the leaves in early spring. As soon as the eggs hatch, the worms eat circular holes in the foliage. As the worms increase in size, they become more voracious, often riddling the leaves.

Remedies—As soon as the worms are seen, spray the plants with a solution made by mixing one ounce of Hellebore in two gallons of water.

The Currant Aphis

The insect attacks the leaves, causing them to curl and turn brown. The lice are usually abundant in early summer, but as hot weather advances they disappear.

Remedies—Spray with kerosene emulsion, one gallon to twenty gallons of water, as soon as the lice are noticed.

INSECTS AFFECTING THE ROSE

The Rose Bug—The same as sometimes attacks the grape. **Remedies**—The same.

The Green Aphis—The same that attacks the apples. **Remedies**—The same.

The Black Aphis—The same that attacks the peach and other trees. **Remedies**—The same.



ROCHESTER LITHO. CO.
ROCHESTER, N. Y.